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**SACRD: A Data Base for Fast Reactor  
Safety Computer Codes—Contents and  
Glossary of Version 1 of the System**

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ORNL-5477/V2  
Distribution Categories  
UC-79d, UC-79p

Contract No. W-7405 eng 26

Engineering Physics Division

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CONTENTS AND GLOSSARY OF VERSION 1 OF THE SYSTEM

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Date Published: January 1979

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## ACKNOWLEDGMENTS

The authors are especially grateful to H. Alter in DOE, without whose support and direction this work would not have been possible. The very generous assistance of Savannah River Laboratories personnel (especially H. C. Honeck) in educating and helping with the JOSHUA system has been invaluable. The authors also thank Brenda Neeley and Cathy Oldham for their patience and understanding during the typing and retyping of the many drafts of this and related documents.

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**ABSTRACT**

**SACRD\* is a data base of material properties and other handbook data needed in computer codes used for fast reactor safety studies. This document lists the contents of Version 1 and also serves as a glossary of terminology used in the data base. Data are available in the thermodynamics, heat transfer, fluid mechanics, structural mechanics, aerosol transport, meteorology, neutronics and dosimetry areas. Tabular, graphical and parameterized data are provided in many cases.**

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**INTRODUCTION**

**The SACRD data base is a collection of material properties and other handbook data needed in computer codes for fast reactor safety studies. A more detailed discussion of its organization can be found in ORNL-5477/V1.<sup>1</sup> The bulk of the data in SACRD are stored using JOSHUA data management schemes. These data are cataloged according to file, property, material, version and type of data. This sort of classification fills the requirements of most safety analysis areas quite**

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**\*SACRD is an acronym for Safety Analysis Computerized Reactor Data.**

adequately. Other data, however, have different types of usages, and are not efficiently managed by the schemes used for the bulk of the data base. In particular, the uses for dosimetry-related data possess this characteristic. These data are stored in separate, small files whose structures are determined by the particular computer code which needs the data.

This document contains a catalog of SACRD data falling under both categories noted above and a glossary of the terminology used in the data base.

#### SACRD VERSION 1 CONTENTS

Tables 1 and 2 are produced by a computer code which scans all SACRD data cataloged by JOSHUA and automatically produces alphabetized lists.

Table 1 shows Version 1 data as a function of material and property. In the rightmost columns, the types of data for each material/property are given. Here the abbreviation A means an Abstract is given, C indicates a Contents record is entered, T indicates Tabular data, and P is for the Program records used to store parameterized fits to the property. In the cases where more than one A is shown, more than one entry is required to store the abstract information due to the volume of information.

Table 2 shows properties in Version 1 and lists materials and types of data as a function of property.

In the dosimetry area, SACRD data are collected into separate files (corresponding closely to card input streams) for important computer codes.

Table 1. Material Index

VERSION 1--	MATERIAL INDEX	PAGE 1
AEROSOL, AEROSOL		
DENSITY, DENSITY		AA
GCE, GRAVITATIONAL COLLISION EFFICIENCY		A
K, THERMAL CONDUCTIVITY		A
LEAKAGE, AEROSOL LEAKAGE		A
PARTSIZE, PARTICLE SIZE		A
PLATEOUT, PLATEOUT PARAMETER		A
THERMOPH, THERMOPHORESIS		A
AIR/AR, AIR-ARGON		
VI, VISCOSITY		A
AL-6061, ALUMINUM ALLOY 6061		
DENSITY, DENSITY		ACT
PF, PRODUCT FORMS/APPLICABLE SPECIFICATION		A
RA, REDUCTION OF AREA		ACT
TE, TOTAL ELONGATION		ACT
UTS, ULTIMATE TENSILE STRENGTH		ACT
YS, YIELD STRENGTH		ACT
A2PE, STEEL A-2PE		
BRINELL, HARDNESS		A
CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE		A
CP, SPECIFIC HEAT CAPACITY		ACT
DENSITY, DENSITY		ACT
EM, THERMAL EMISSIVITY		ACT
K, THERMAL CONDUCTIVITY		ACT
LTEC, COEFFICIENT OF THERMAL EXPANSION		ACT
MSP, MINIMUM SPECIFIED PROPERTIES		A
PF, PRODUCT FORMS/APPLICABLE SPECIFICATION		A
POISSRAT, POISSON'S RATIO		ACT
RA, REDUCTION OF AREA		ACT
SM, SHEAR MODULUS (MODULUS OF RIGIDITY)		ACT
SR, STRESS-RUPTURE STRENGTH		ACT
TD, THERMAL DIFFUSIVITY		ACT
TE, TOTAL ELONGATION		ACT
UTS, ULTIMATE TENSILE STRENGTH		ACT
YM, YOUNG'S MODULUS (MODULUS OF ELASTICITY)		ACT
YS, YIELD STRENGTH		ACT
B4C, BORON CARBIDE		
CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE		A
K, THERMAL CONDUCTIVITY		A
KRATIO		CT
LTE		ACT
TD, THERMAL DIFFUSIVITY		ACT
CR308, CRE308 WELD		
RA, REDUCTION OF AREA		ACT
TE, TOTAL ELONGATION		ACT
UE, UNIFORM ELONGATION		ACT
UTS, ULTIMATE TENSILE STRENGTH		ACT
YS, YIELD STRENGTH		ACT
HE, HELIUM COMPRESS		ACT



Table 1 (Contd.)

VERSION 1--	MATERIAL INDEX	PAGE 2
1-E.	HELIUM (CONTINUED)	
	CP, SPECIFIC HEAT CAPACITY	ACT
	CJ, SPECIFIC HEAT CAPACITY	ACT
	DENSITY, DENSITY	ACT
	ENTHALPY, ENTHALPY	ACT
	ENTROPY, ENTROPY	ACT
	GASCON	ACT
	K, THERMAL CONDUCTIVITY	ACT
	PRANDTL, PRANDTL NUMBER	ACT
	SS, SPEED OF SOUND	ACT
	VI, VISCOSITY	ACT
1X750.	INCONEL ALLOY X-750	
	CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	A
	MSP, MINIMUM SPECIFIED PROPERTIES	A
	PF, PRODUCT FORMS/APPLICABLE SPECIFICATION	A
1600.	INCONEL 1600	
	OR INELL, HARDNESS	ACT
	CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	A
	CP, SPECIFIC HEAT CAPACITY	ACT
	CR, CREEP	A
	DENSITY, DENSITY	ACT
	EM, THERMAL EMISSIVITY	ACT
	FCCG, FATIGUE-CRACK GROWTH BEHAVIOR	A
	FCCG/SA, FATIGUE-CRACK GROWTH BEHAVIOR, STRESS RATIO EFFECT	A
	K, THERMAL CONDUCTIVITY	ACT
	LT	ACT
	MSP, MINIMUM SPECIFIED PROPERTIES	A
	PF, PRODUCT FORMS/APPLICABLE SPECIFICATION	A
	POISRA, POISSON'S RATIO	ACT
	RA, REDUCTION OF AREA	ACT
	SA, SHEAR MODULUS (MODULUS OF RIGIDITY)	ACT
	SA, STRESS-RUPTURE STRENGTH	A
	SWELLING, SWELLING	A
	TD, THERMAL DIFFUSIVITY	ACT
	TE, TOTAL ELONGATION	ACT
	UTS, ULTIMATE TENSILE STRENGTH	ACT
	YM, YOUNG'S MODULUS (MODULUS OF ELASTICITY)	ACT
	YS, YIELD STRENGTH	ACT
1710.	INCONEL 1710	
	CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	A
	CP, SPECIFIC HEAT CAPACITY	ACT
	DENSITY, DENSITY	CT
	EM, THERMAL EMISSIVITY	ACT
	FCCG, FATIGUE-CRACK GROWTH BEHAVIOR	A
	FCCG/SA, FATIGUE-CRACK GROWTH BEHAVIOR, STRESS RATIO EFFECT	A
	FRICTION, FRICTION/WEAR/SELF-DETECTING BEHAVIOR	A
	K, THERMAL CONDUCTIVITY	ACT
	LTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
	MSP, MINIMUM SPECIFIED PROPERTIES	A
	NACORR, SODIUM CORROSION AND DECARBURIZATION IN	

Table 1 (Contd.)

VERSION 1--	MATERIAL INDEX	PAGE 2
1710.	INCONEL 1710 (CONTINUED) SODIUM	ACT
	PF. PRODUCT FORMS/APPLICABLE SPECIFICATION	A
	POISRA. POISSON'S RATIO	ACT
	RA. REDUCTION OF AREA	ACT
	SM. SHEAR MODULUS (MODULUS OF RIGIDITY)	ACT
	SR. STRESS-RUPTURE STRENGTH	ACT
	TD. THERMAL DIFFUSIVITY	ACT
	TE. TOTAL ELONGATION	ACT
	UTS. ULTIMATE TENSILE STRENGTH	ACT
	YM. YOUNG'S MODULUS (MODULUS OF ELASTICITY)	ACT
	YS. YIELD STRENGTH	ACT
1710A.	ALUMINIZED INCONEL 1710	AA
	FRIC. FRICTION/FRICTION/WEAR/SELF-WELDING BEHAVIOR	ACT
	NACORR. SODIUM CORROSION AND DECAERIFICATION IN SODIUM	ACT
KR.	KRYPTON	ACT
	CV. SPECIFIC HEAT CAPACITY	A
	FGGR. FISSION GAS GENERATION	A
	K. THERMAL CONDUCTIVITY	A
MC5.	MEDIUM CARBON STEEL	A
	CHCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	ACT
	CP. SPECIFIC HEAT CAPACITY	ACT
	DENSITY. DENSITY	ACT
	EM. THERMAL EMISSIVITY	ACT
	K. THERMAL CONDUCTIVITY	ACT
	LEC. COEFFICIENT OF THERMAL EXPANSION	ACT
	NSP. MINIMUM SPECIFIED PROPERTIES	A
	PF. PRODUCT FORMS/APPLICABLE SPECIFICATION	A
	SR. STRESS-RUPTURE STRENGTH	ACT
	TD. THERMAL DIFFUSIVITY	ACT
	TE. TOTAL ELONGATION	ACT
	TTIDF. TRANSIENT TEMPERATURE INCREASE CAPAGE FUNCTION	ACT
	UTS. ULTIMATE TENSILE STRENGTH	ACT
	YM. YOUNG'S MODULUS (MODULUS OF ELASTICITY)	ACT
	YS. YIELD STRENGTH	ACT
V.	NITROGEN	ACT
	CV. SPECIFIC HEAT CAPACITY	A
	K. THERMAL CONDUCTIVITY	A
NA.	SODIUM COOLANT	AC
	BP. BOILING POINT	ACT
	CHCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	A
	CP. SPECIFIC HEAT CAPACITY	ACT
	CRID. CRITICAL DENSITY	ACT
	CRIP. CRITICAL PRESSURE	ACT
	CRIT. CRITICAL TEMPERATURE	ACT
	CV. SPECIFIC HEAT CAPACITY	ACT
	DENSITY. DENSITY	ACT
	ELECRES. ELECTRICAL RESISTIVITY	ACT

Table 1 (Contd.)

VERSION 1--

## M A T E R I A L   I N D E X

PAGE 4

NA. SODIUM COOLANT (CONTINUED)	
ENTHALPY, ENTHALPY	ACT
HF. HEAT OF FUSION	ACT
HV. HEAT OF VAPORIZATION	ACT
IC. ISOTHERMAL COMPRESSIBILITY	ACT
K. THERMAL CONDUCTIVITY	ACT
MP. MELTING POINT	ACT
PRANDTL. PRANDTL NUMBER	AACCTT
SM. SHEAR MODULUS (MODULUS OF RIGIDITY)	A
SS. SPEED OF SOUND	AACT
ST. SURFACE TENSION	ACT
TD. THERMAL DIFFUSIVITY	ACT
VI. VISCOSITY	ACT
VP. VAPOR PRESSURE	ACT
VTEC. COEFFICIENT OF THERMAL EXPANSION	ACT
NA-CON. SODIUM CONCRETE	
HEATREAC. HEAT OF REACTION	A
NAK. SODIUM POTASSIUM 78	
BP. BOILING POINT	CT
CHCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	A
CP. SPECIFIC HEAT CAPACITY	ACT
DENSITY, DENSITY	ACT
ELECRES. ELECTRICAL RESISTIVITY	ACT
K. THERMAL CONDUCTIVITY	ACT
MP. MELTING POINT	CT
PRANDTL. PRANDTL NUMBER	AACCTT
VI. VISCOSITY	ACT
VP. VAPOR PRESSURE	ACT
S-CR. STEEL: 316 CR - 1 NO	
ASC. AIR SIDE CORROSION	ACT
BCTFS. BRIDGEMAN CORRECTED TRUE FRACTURE STRESS	AACT
CHCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	A
CP. SPECIFIC HEAT CAPACITY	CT
CR. CREEP	AA
CRTE. TOTAL ELONGATION IN CREEP AT RUPTURE	AA
DCS. DECARBURIZATION IN SODIUM	AAACT
DENSITY, DENSITY	ACT
ELECRES. ELECTRICAL RESISTIVITY	CT
EM. THERMAL EMISSIVITY	CT
K. THERMAL CONDUCTIVITY	CT
LTEC. COEFFICIENT OF THERMAL EXPANSION	CT
MRTP. MINIMUM SPECIFIED PROPERTIES	A
NACORR. SODIUM CORROSION AND DECARBURIZATION IN SODIUM	ACT
PF. PRODUCT FORMS/APPLICABLE SPECIFICATION	A
PL. PROPORTIONAL ELASTIC LIMIT	ACT
POISSAT. POISSON'S RATIO	CT
RA. REDUCTION OF AREA	AAACT
SCC. SURFACE CARBON CONCENTRATION	A
SM. SHEAR MODULUS (MODULUS OF RIGIDITY)	CT
SSD. SODIUM-SIDED DEPOSITION	AA
SSPARM. PARAMETERS FOR STRESS-STRAIN CYCLIC	

Table 1 (Contd.)

VERSION 1--	MATERIAL INDEX	PAGE 2
S-CR. STEEL : 2.25 CR - 1 MG (CONTINUED)		
HARDENING		ACT
SSPAPMC. °C° PARAMETERS FOR STRESS-STRAIN CYCLIC HARDENING		ACT
SSPAMEN. °EN° PARAMETERS FOR STRESS-STRAIN CYCLIC HARDENING		ACT
TD. THERMAL DIFFUSIVITY		CT
TE. TOTAL ELONGATION		ACT
TENSILE. EFFECTS OF PRICE CREEP ON TENSILE DUCTILITY		AACT
TOUGH. TOUGHNESS FOR TENSILE INSTABILITY		ACT
TSTS. TRUE STRESS-STRAIN		AA
UTS. ULTIMATE TENSILE STRENGTH		AAACT
WSC. WATER SIDE CORROSION		AACT
YM. YOUNG'S MODULUS (MODULUS OF ELASTICITY)		CT
YS. YIELD STRENGTH		AAACT
YSBILIN. BILINEAR BILINEAR YIELD STRENGTH		AAACT
SS		
SWELLING, SWELLING		AA
SS304. STAINLESS STEEL 304		
BP. BOILING POINT		ACT
CDC. CARBON DIFFUSION COEFFICIENT		ACT
CHCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE		A
CP. SPECIFIC HEAT CAPACITY		ACT
CR. CREEP		ACT
DENSITY. DENSITY		ACT
ENTHALPY. ENTHALPY		ACT
FCGB. FATIGUE-CRACK GROWTH BEHAVIOR		A
FCGB/SR. FATIGUE-CRACK GROWTH BEHAVIOR. STRESS RATIO EFFECT		A
HF. HEAT OF FUSION		ACT
HV. HEAT OF VAPORIZATION		ACT
K. THERMAL CONDUCTIVITY		ACT
LTE		ACT
LTEC. COEFFICIENT OF THERMAL EXPANSION		ACT
MP. MELTING POINT		ACT
MRTP. MINIMUM SPECIFIED PROPERTIES		A
PF. PRODUCT FORMS/APPLICABLE SPECIFICATION		A
POISRAT. POISSON'S RATIO		ACT
RBH. ROCKWELL B. HARDNESS		ACT
RM. RUPTURE MODULUS		ACT
SCC. SURFACE CARBON CONCENTRATION		ACT
SM. SHEAR MODULUS (MODULUS OF RIGIDITY)		ACT
SRE/STST. STRAIN RATE EFFECTS		A
STRCF. STRAIN CONTROLLED FATIGUE		A
STSTR. ISOTHERMAL STRESS-STRAIN CURVE		A
SWELLOF. SWELLING DAMAGE FUNCTION		ACT
SWELLING, SWELLING		A
TD. THERMAL DIFFUSIVITY		ACT
TE. TOTAL ELONGATION		ACT
TEOF. TOTAL ELONGATION DAMAGE FUNCTION		AACT
TSTS. TRUE STRESS-STRAIN		A
UE. UNIFORM ELONGATION		ACT
UEOF. UNIFORM ELONGATION DAMAGE FUNCTION		AACT

Table 1 (Contd.)

VERSION 1--	MATERIAL INDEX	PAGE E
		-----
SS304, STAINLESS STEEL 304 (CONTINUED)		
UTS, ULTIMATE TENSILE STRENGTH		ACT
UTSDF, ULTIMATE TENSILE STRENGTH, DAMAGE FRACTION		ACT
VI, VISCOSITY		ACT
VP, VAPOR PRESSURE		ACT
YM, YOUNG'S MODULUS (MODULUS OF ELASTICITY)		ACT
YS, YIELD STRENGTH		ACT
YSDF, YIELD STRENGTH DAMAGE FUNCTION		ACT
SS316, STAINLESS STEEL 316		
BP, BOILING POINT		ACT
CGC, CARBON DIFFUSION COEFFICIENT		ACT
CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE		A
CP, SPECIFIC HEAT CAPACITY		ACT
CR, CREEP		A
DENSITY, DENSITY		ACT
ENTHALPY, ENTHALPY		ACT
HF, HEAT OF FUSION		ACT
HV, HEAT OF VAPORIZATION		ACT
ICC, AVERAGE INTERSTITIAL CARBON CONCENTRATION		A
INTCCN, AVERAGE INTERSTITIAL (C+N) CONCENTRATION		A
K, THERMAL CONDUCTIVITY		ACT
LTE		ACT
LTEC, COEFFICIENT OF THERMAL EXPANSION		ACT
MP, MELTING POINT		ACT
MSP, MINIMUM SPECIFIED PROPERTIES		A
PF, PRODUCT FORMS/APPLICABLE SPECIFICATION		A
POISRAT, POISSON'S RATIO		ACT
SCC, SURFACE CARBON CONCENTRATION		A
SM, SHEAR MODULUS (MODULUS OF RIGIDITY)		ACT
SRE/FLST, STRAIN RATE EFFECT ON FLOW STRESS		A
TD, THERMAL DIFFUSIVITY		ACT
TE, TOTAL ELONGATION		ACT
TEDF, TOTAL ELONGATION DAMAGE FUNCTION		A
TFS, TENSILE FLOW STRESS		A
TFSIP, TENSILE FLOW STRESS IRRADIATED		ACT
TSTS, TRUE STRESS-STRAIN		A
UE, UNIFORM ELONGATION		ACT
UEDF, UNIFORM ELONGATION DAMAGE FUNCTION		AACT
UTS, ULTIMATE TENSILE STRENGTH		ACT
VI, VISCOSITY		ACT
VP, VAPOR PRESSURE		ACT
YM, YOUNG'S MODULUS (MODULUS OF ELASTICITY)		ACT
YS, YIELD STRENGTH		ACT
SS316/20, STAINLESS STEEL 316 - 20% CW		
BDUCT, BURST DUCTILITY		ACT
BPRESS, BURST PRESSURE (BIAXIAL)		ACT
BSR, BIAXIAL STRESS RUPTURE		ACT
BTEMP, BURST TEMPERATURE		ACT
CHCOMP, CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE		A
CR, CREEP		AAAAACT
MSP, MINIMUM SPECIFIED PROPERTIES		A
PF, PRODUCT FORMS/APPLICABLE SPECIFICATION		A
PL, PROPORTIONAL ELASTIC LIMIT		ACT

Table 1 (Contd.)

VERSION 1--

## M A T E R I A L I N D E X

PAGE 7

	-----
SS316/20, STAINLESS STEEL 316 - 20% CN (CONTINUED)	
SR, STRESS-RUPTURE STRENGTH	AA
SRE/FLST, STRAIN RATE EFFECT ON FLOW STRESS	A
STFRSWIR, STRESS FREE SWELLING, IRRADIATION INDUCED	A
TE, TOTAL ELONGATION	ACT
TFS, TENSILE FLOW STRESS	A
TFSAGED, TENSILE FLOW STRESS, AGED	ACT
TFSIR, TENSILE FLOW STRESS IRRADIATED	ACT
UE, UNIFORM ELONGATION	ACT
YS, YIELD STRENGTH	ACT
SS316/30	
STFRSWIR, STRESS FREE SWELLING, IRRADIATION INDUCED	A
SS321, STAINLESS STEEL 321	
C, SPECIFIC HEAT CAPACITY	ACT
K, THERMAL CONDUCTIVITY	ACT
LTE	ACT
LTEC, COEFFICIENT OF THERMAL EXPANSION	CT
TD, THERMAL DIFFUSIVITY	ACT
TH, THORIUM	
EP, BOILING POINT	ACT
CP, SPECIFIC HEAT CAPACITY	ACT
DENSITY, DENSITY	ACT
ENTHALPY, ENTHALPY	ACT
HF, HEAT OF FUSION	ACT
HV, HEAT OF VAPORIZATION	ACT
K, THERMAL CONDUCTIVITY	ACT
MP, MELTING POINT	ACT
PHASETR, PHASE TRANSITION TEMPERATURE	ACT
VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
THC, THORIUM CARBIDE	
CP, SPECIFIC HEAT CAPACITY	ACT
DENSITY, DENSITY	ACT
ENTHALPY, ENTHALPY	ACT
HF, HEAT OF FUSION	ACT
K, THERMAL CONDUCTIVITY	ACT
MP, MELTING POINT	ACT
VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
THC2, THORIUM DICARBIDE	
EP, BOILING POINT	ACT
CP, SPECIFIC HEAT CAPACITY	ACT
DENSITY, DENSITY	ACT
ENTHALPY, ENTHALPY	ACT
HF, HEAT OF FUSION	ACT
HV, HEAT OF VAPORIZATION	ACT
MP, MELTING POINT	ACT
PHASETR, PHASE TRANSITION TEMPERATURE	ACT
VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
THO2, THORIUM OXIDE, THORIA	
EP, BOILING POINT	ACT
CP, SPECIFIC HEAT CAPACITY	ACT
DELTAMP, CHANGE IN DENSITY ON MELTING	ACT

Table 1 (Contd.)

VERSION 1--	MATERIAL INDEX	PAGE 2
THO2	THORIUM OXIDE, THORIA (CONTINUED)	
	DENSITY, DENSITY	ACT
	ENTHALPY, ENTHALPY	ACT
	HF, HEAT OF FUSION	ACT
	HV, HEAT OF VAPORIZATION	ACT
	K, THERMAL CONDUCTIVITY	ACT
	MP, MELTING POINT	ACT
	VI, VISCOSITY	ACT
	VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
THU,	THORIUM-URANIUM	
	BP, BOILING POINT	ACT
	CP, SPECIFIC HEAT CAPACITY	ACT
	DENSITY, DENSITY	ACT
	ENTHALPY, ENTHALPY	ACT
	HF, HEAT OF FUSION	ACT
	HV, HEAT OF VAPORIZATION	ACT
	K, THERMAL CONDUCTIVITY	ACT
	MP, MELTING POINT	ACT
THUC,	THORIUM-URANIUM CARBIDE	
	CP, SPECIFIC HEAT CAPACITY	ACT
	DENSITY, DENSITY	ACT
	ENTHALPY, ENTHALPY	ACT
	HF, HEAT OF FUSION	ACT
	K, THERMAL CONDUCTIVITY	ACT
	MP, MELTING POINT	ACT
	VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
THUC2,	THORIUM-URANIUM DICARBIDE	
	CP, SPECIFIC HEAT CAPACITY	ACT
	DENSITY, DENSITY	ACT
	ENTHALPY, ENTHALPY	ACT
	HF, HEAT OF FUSION	ACT
	K, THERMAL CONDUCTIVITY	ACT
	MP, MELTING POINT	ACT
	VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
THUO2,	THORIUM-URANIUM OXIDE	
	BP, BOILING POINT	ACT
	CP, SPECIFIC HEAT CAPACITY	ACT
	CDENATMP, CHANGE IN DENSITY ON MELTING	ACT
	DENSITY, DENSITY	ACT
	ENTHALPY, ENTHALPY	ACT
	HF, HEAT OF FUSION	ACT
	HV, HEAT OF VAPORIZATION	ACT
	K, THERMAL CONDUCTIVITY	ACT
	MP, MELTING POINT	ACT
	VI, VISCOSITY	ACT
	VTEC, COEFFICIENT OF THERMAL EXPANSION	ACT
TRIE700,	TRICALGY 700	
	BRKFRIC, BREAKAWAY FRICTION COEFFICIENT	A
	BRKFRNA, COATING BREAKAWAY FRICTION IN SOLUTION	ACT
	CORR, CORROSION	A
	CYNFRIC, DYNAMIC FRICTION COEFFICIENT	A
	NACORR, SODIUM CORROSION AND DECARBURIZATION IN	





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UO2.	URANIUM DIOXIDE (CONTINUED)	
	VP. VAPOR PRESSURE	ACT
	VTEC. COEFFICIENT OF THERMAL EXPANSION	ACT
	YM. YOUNG'S MODULUS (MODULUS OF ELASTICITY)	A
	YS. YIELD STRENGTH	ACT
UPUC.	URANIUM-PLUTONIUM CARBIDE	
	BP. BOILING POINT	ACT
	CP. SPECIFIC HEAT CAPACITY	ACT
	CRIT. CRITICAL TEMPERATURE	ACT
	DENSITY. DENSITY	ACT
	ENTHALPY. ENTHALPY	ACT
	HF. HEAT OF FUSION	ACT
	HV. HEAT OF VAPORIZATION	ACT
	K. THERMAL CONDUCTIVITY	ACT
	MP. MELTING POINT	ACT
	VI. VISCOSITY	ACT
	VTEC. COEFFICIENT OF THERMAL EXPANSION	ACT
UPUO2.	URANIUM-PLUTONIUM OXIDE	
	EM. BULK MODULUS	A
	EP. BOILING POINT	ACT
	CP. SPECIFIC HEAT CAPACITY	ACT
	CR. CREEP	A
	CDENATMP. CHANGE IN DENSITY ON MELTING	ACT
	DENSITY. DENSITY	ACT
	EM. THERMAL EMISSIVITY	A
	EMSPFC. NORMAL SPECTRAL EMISSIVITY	ACT
	EMSPEC	CT
	ENTHALPY. ENTHALPY	ACT
	FS. FRACTURE STRESS	A
	HF. HEAT OF FUSION	ACT
	HV. HEAT OF VAPORIZATION	ACT
	K. THERMAL CONDUCTIVITY	AACT
	LTE	ACT
	LTEC. COEFFICIENT OF THERMAL EXPANSION	ACT
	MP. MELTING POINT	AC
	MPIR	CT
	POISRAT. POISSON'S RATIO	A
	SM. SHEAR MODULUS (MODULUS OF RIGIDITY)	A
	ST. SURFACE TENSION	ACT
	VI. VISCOSITY	ACT
	VP. VAPOR PRESSURE	ACT
	VTEC. COEFFICIENT OF THERMAL EXPANSION	ACT
	YM. YOUNG'S MODULUS (MODULUS OF ELASTICITY)	A
WELD	CHEMCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE	AA
XE.	XENON	
	CV. SPECIFIC HEAT CAPACITY	ACT
	FGGR. FISSION GAS GENERATION	A
	K. THERMAL CONDUCTIVITY	A
16-B-2WEL	16-B-2 WELD METAL	
	TE. TOTAL ELONGATION	ACT

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	UE. UNIFORM ELONGATION	ACT
	UTS. ULTIMATE TENSILE STRENGTH	ACT
	YS. YIELD STRENGTH	ACT
	100/200, 100/200 WELD METAL	
	RA. REDUCTION OF AREA	ACT
	TE. TOTAL ELONGATION	ACT
	UE. UNIFORM ELONGATION	ACT
	UTS. ULTIMATE TENSILE STRENGTH	ACT
	YS. YIELD STRENGTH	ACT

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BDUCT, BURST DUCTILITY SS316/20, STAINLESS STEEL 316 - 20X CB ....		ABSTRACT CONTENTS TABULAR
EM, BULK MODULUS UPUO2, URANIUM-PLUTONIUM OXIDE .....		ABSTRACT
EP, BOILING FLUENT NA, SODIUM COLANT .....		ABSTRACT CONTENTS CONTENTS TABULAR
NAK, SODIUM POTASSIUM 70 .....		CONTENTS TABULAR
SS304, STAINLESS STEEL 304 .....		ABSTRACT CONTENTS TABULAR
SS316, STAINLESS STEEL 316 .....		ABSTRACT CONTENTS TABULAR
TH, THORIUM .....		ABSTRACT CONTENTS TABULAR
THC2, THORIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
THO2, THORIUM OXIDE, THORIA .....		ABSTRACT CONTENTS TABULAR
THU, THORIUM-URANIUM .....		ABSTRACT CONTENTS TABULAR
THUO2, THORIUM-URANIUM OXIDE .....		ABSTRACT CONTENTS TABULAR
U, URANIUM .....		ABSTRACT CONTENTS TABULAR
UC, URANIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
UO2, URANIUM DIOXIDE .....		ABSTRACT CONTENTS TABULAR
UPUC, URANIUM-PLUTONIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR

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	ERINELL. HARDNESS A296. STEEL A-286 .....	ABSTRACT
	1630. INCONEL 1600 .....	ABSTRACT CONTENTS TABULAR
	ERKFRIC. BREAKAWAY FRICTION COEFFICIENT T18700. TITIALLOY 700 .....	ABSTRACT
	ERKFRNA. COATING BREAKAWAY FRICTION IN SODIUM T18700. TITIALLOY 700 .....	ABSTRACT CONTENTS TABULAR
	BSR. BIAXIAL STRESS RUPTURE SS316/20. STAINLESS STEEL 316 - 20% CR ....	ABSTRACT CONTENTS TABULAR
	ETEMP. BURST TEMPERATURE SS316/20. STAINLESS STEEL 316 - 20% CR ....	ABSTRACT CONTENTS TABULAR
	CCC. CARBON DIFFUSION COEFFICIENT SS304. STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
	SS316. STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
	CM. CRACK HEALING UO2. URANIUM DIOXIDE .....	ABSTRACT
	CHCOMP. CHEMICAL COMPOSITION/STOICHIOMETRY/CRYSTAL STRUCTURE A296. STEEL A-286 .....	ABSTRACT
	B4C. BORON CARBIDE .....	ABSTRACT
	IX750. INCONEL ALLOY X-750 .....	ABSTRACT
	1600. INCONEL 1600 .....	ABSTRACT
	1710. INCONEL 1710 .....	ABSTRACT
	MCS. MEDIUM CARBON STEEL .....	ABSTRACT
	NA. SODIUM COOLANT .....	ABSTRACT
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	S-CR. STEEL: 2.25 CR - 1% C .....	ABSTRACT
	SS304. STAINLESS STEEL 304 .....	ABSTRACT
	SS316. STAINLESS STEEL 316 .....	ABSTRACT

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WELD .....		ABSTRACT
COMPRESS		
HE. HELIUM .....		ABSTRACT
		CONTENTS
		PROGRAM
		TABULAR
CORR. CORROSION		
TR1800. TITANALLOY 760 .....		ABSTRACT
CP. SPECIFIC HEAT CAPACITY		
A286. STEEL A-286 .....		ABSTRACT
		CONTENTS
		TABULAR
HE. HELIUM .....		ABSTRACT
		CONTENTS
		TABULAR
1609. INCONEL 1600 .....		ABSTRACT
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		TABULAR
1719. INCONEL 1719 .....		ABSTRACT
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MCS. MEDIUM CARBON STEEL .....		ABSTRACT
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		TABULAR
NA. SODIUM COOLANT .....		ABSTRACT
		CONTENTS
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NAK. SODIUM POTASSIUM 78 .....		ABSTRACT
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S-CR. STEEL; 2.25 CR - 1/2 PC .....		CONTENTS
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SS304. STAINLESS STEEL 304 .....		ABSTRACT
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SS316. STAINLESS STEEL 316 .....		ABSTRACT
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		TABULAR
SS321. STAINLESS STEEL 321 .....		ABSTRACT
		CONTENTS
		TABULAR
TH. THORIUM .....		ABSTRACT
		CONTENTS
		TABULAR
THC. THORIUM CARBIDE .....		ABSTRACT
		CONTENTS
		TABULAR
THC2. THORIUM DICARBIDE .....		ABSTRACT
		CONTENTS
		TABULAR
THO2. THORIUM OXIDE, THORIA .....		ABSTRACT
		CONTENTS
		TABULAR

Table 2 (Contd.)

VERSION 1	P R O P E R T Y   I N D E X	PAGE 4 -----
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THUC, THORIUM-URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR	
THUC2, THORIUM-URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR	
THUO2, THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS TABULAR	
U, URANIUM .....	ABSTRACT CONTENTS TABULAR	
UC, URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR	
UC2, URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR	
UO2, URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR	
UPUC, URANIUM-PLUTONIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR	
UPUO2, URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR	
CR, CREEP		
1500, INCONEL 1500 .....	ABSTRACT	
S-CR, STEEL: 2.25 CR - 1 MC .....	ABSTRACT	
SS304, STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR	
SS316, STAINLESS STEEL 316 .....	ABSTRACT	
SS316/20, STAINLESS STEEL 316 - 20% Cu .....	ABSTRACT1 ABSTRACT2 ABSTRACT3 ABSTRACT4 ABSTRACT CONTENTS TABULAR	
UPUO2, URANIUM-PLUTONIUM OXIDE .....	ABSTRACT	
CRITD, CRITICAL DENSITY		
NA, SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR	
CRITP, CRITICAL PRESSURE		
NA, SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR	
CRITT, CRITICAL TEMPERATURE		
NA, SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR	

Table 2 (Contd.)

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	UPUC. URANIUM-PLUTONIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
	CRTE. TOTAL ELONGATION IN CREEP AT RUPTURE S-CR. STEEL: 2.25 CR - 1 PC .....	ABSTRACT ABSTRACT
	CV. SPECIFIC HEAT CAPACITY HE. HELIUM .....	ABSTRACT CONTENTS TABULAR
	KR. KRYPTON .....	ABSTRACT CONTENTS TABULAR
	N. NITROGEN .....	ABSTRACT CONTENTS TABULAR
	NA. SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR
	XE. XENON .....	ABSTRACT CONTENTS TABULAR
	CCS. DECARBURIZATION IN SODIUM S-CR. STEEL: 2.25 CR - 1 PC .....	ABSTRACT ABSTRACT CONTENTS TABULAR
	DENAIMP. CHANGE IN DENSITY OF MELTING THO2. THORIUM OXIDE, THORIA .....	ABSTRACT CONTENTS TABULAR
	THUO2. THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
	UO2. URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
	UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
	DENSITY, DENSITY AEROSOL, AEROSOL .....	ABSTRACT ABSTRACT
	AL-6061, ALUMINUM ALLOY 6061 .....	ABSTRACT CONTENTS TABULAR
	A286, STEEL A-286 .....	ABSTRACT CONTENTS TABULAR

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I710, INCCNEL 1710 .....	ABSTRACT CONTENTS TABULAR
MCS, MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
NA, SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR
NAK, SODIUM POTASSIUM 70 .....	ABSTRACT CONTENTS TABULAR
S-CR, STEEL: 2.25 CR - 1 W0 .....	ABSTRACT CONTENTS TABULAR
SS304, STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
SS316, STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
TH, THORIUM .....	ABSTRACT CONTENTS TABULAR
THC, THORIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
THC2, THORIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR
THO2, THORIUM OXIDE, THORIA .....	ABSTRACT CONTENTS TABULAR
THU, THORIUM-URANIUM .....	ABSTRACT CONTENTS TABULAR
THUC, THORIUM-URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
THUC2, THORIUM-URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR
THUO2, THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
U, URANIUM .....	ABSTRACT CONTENTS TABULAR
UC, URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR



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	UO2. URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
	UPUC. URANIUM-PLUTONIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
	UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
	DYNFRIC. DYNAMIC FRICTION COEFFICIENT TR100. TRIBALLOY 700 .....	ABSTRACT
	ELECRES. ELECTRICAL RESISTIVITY NA. SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR
	NAK. SODIUM POTASSIUM 70 .....	ABSTRACT CONTENTS TABULAR
	S-CR. STEEL: 2.25 CR - 1 PC .....	CONTENTS TABULAR
	EM. THERMAL EMISSIVITY A205. STEEL A-205 .....	ABSTRACT CONTENTS TABULAR
	1600. INCONEL 1600 .....	ABSTRACT CONTENTS TABULAR
	1710. INCONEL 1710 .....	ABSTRACT CONTENTS TABULAR
	MCS. MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
	S-CR. STEEL: 2.25 CR - 1 PC .....	CONTENTS TABULAR
	UO2. URANIUM DIOXIDE .....	ABSTRACT
	UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT
	EMSPEC. NORMAL SPECTRAL EMISSIVITY UC. URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
	UO2. URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
	UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
	EMSPECH UPUO2. URANIUM-PLUTONIUM OXIDE .....	CONTENTS TABULAR
	EMTOT. NORMAL TOTAL EMISSIVITY UC. URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
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TH. THORIUM .....		ABSTRACT CONTENTS TABULAR
THC. THORIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
THC2. THORIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
THO2. THORIUM OXIDE, THORIA .....		ABSTRACT CONTENTS TABULAR
THU. THORIUM-URANIUM .....		ABSTRACT CONTENTS TABULAR
THUC. THORIUM-URANIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
THUC2. THORIUM-URANIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
THUO2. THORIUM-URANIUM OXIDE .....		ABSTRACT CONTENTS TABULAR
U. URANIUM .....		ABSTRACT CONTENTS TABULAR
UC. URANIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
UC2. URANIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
UO2. URANIUM DIOXIDE .....		ABSTRACT CONTENTS TABULAR
UPUC. URANIUM-PLUTONIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
UPUO2. URANIUM-PLUTONIUM OXIDE .....		ABSTRACT CONTENTS TABULAR
ENTROPY, ENTROPY OF HELIUM .....		ABSTRACT CONTENTS PROGRAM TABULAR
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SS304. STAINLESS STEEL 304 .....	ABSTRACT	
FCGB/SR. FATIGUE-CRACK GROWTH BEHAVIOR, STRESS	FATIC EFFECT	
I600. INCONEL I600 .....	ABSTRACT	
I718. INCONEL I718 .....	ABSTRACT	
SS304. STAINLESS STEEL 304 .....	ABSTRACT	
FGGR. FISSION GAS GENERATION		
KA. KRYPTON .....	ABSTRACT	
XE. XENON .....	ABSTRACT	
FRICION. FRICTION/WEAR/SELF-WELDING BEHAVIOR		
I718. INCONEL I718 .....	ABSTRACT	
I718AL. ALUMINIZED INCONEL I718 .....	ABSTRACT	
FS. FRACTURE STRESS		
UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT	
GASCON		
HE. HELIUM .....	ABSTRACT	
	CONTENTS	
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AEROSOL. AEROSOL .....	ABSTRACT	
GG. GRAIN GROWTH		
UO2. URANIUM DIOXIDE .....	ABSTRACT	
HEATREAC. HEAT OF REACTION		
NA-CON. SODIUM CONCRETE .....	ABSTRACT	
HF. HEAT OF FUSION		
NA. SODIUM COOLANT .....	ABSTRACT	
	CONTENTS	
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SS304. STAINLESS STEEL 304 .....	ABSTRACT	
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SS316. STAINLESS STEEL 316 .....	ABSTRACT	
	CONTENTS	
	TABULAR	
TH. THORIUM .....	ABSTRACT	
	CONTENTS	
	TABULAR	
THC. THORIUM CARBIDE .....	ABSTRACT	
	CONTENTS	
	TABULAR	
THC2. THORIUM DICARBIDE .....	ABSTRACT	
	CONTENTS	
	TABULAR	
THO2. THORIUM OXIDE, THORIA .....	ABSTRACT	
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	TABULAR	

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THUC, THORIUM-URANIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
THUC2, THORIUM-URANIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
THUO2, THORIUM-URANIUM OXIDE .....		ABSTRACT CONTENTS TABULAR
U, URANIUM .....		ABSTRACT CONTENTS TABULAR
UC, URANIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
UC2, URANIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
UO2, URANIUM DIOXIDE .....		ABSTRACT CONTENTS TABULAR
UPUC, URANIUM-PLUTONIUM CARBIDE .....		ABSTRACT CONTENTS TABULAR
UPUO2, URANIUM-PLUTONIUM OXIDE .....		ABSTRACT CONTENTS TABULAR
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NA, SODIUM COOLANT .....		ABSTRACT CONTENTS TABULAR
SS104, STAINLESS STEEL 304 .....		ABSTRACT CONTENTS TABULAR
SS316, STAINLESS STEEL 316 .....		ABSTRACT CONTENTS TABULAR
Th, THORIUM .....		ABSTRACT CONTENTS TABULAR
THC2, THORIUM DICARBIDE .....		ABSTRACT CONTENTS TABULAR
THO2, THORIUM OXIDE, THORIA .....		ABSTRACT CONTENTS TABULAR
THU, THORIUM-URANIUM .....		ABSTRACT CONTENTS TABULAR
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UC. URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
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UPUC. URANIUM-PLUTONIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
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INTCCN. AVERAGE INTERSTITIAL (C+N) CONCENTRATION	
SS316. STAINLESS STEEL 316 .....	ABSTRACT
K. THERMAL CONDUCTIVITY	
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A296. STEEL A-296 .....	ABSTRACT CONTENTS PROGRAM TABULAR
B4C. BORON CARBIDE .....	ABSTRACT
HE. HELIUM .....	ABSTRACT CONTENTS PROGRAM TABULAR
I600. INCONEL 1600 .....	ABSTRACT CONTENTS TABULAR
I718. INCONEL 1718 .....	ABSTRACT CONTENTS TABULAR
KR. KRYPTON .....	ABSTRACT
MCS. MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
N. NITROGEN .....	ABSTRACT
NA. SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR
NAK. SODIUM POTASSIUM 78 .....	ABSTRACT CONTENTS TABULAR

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SS316. STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
SS321. STAINLESS STEEL 321 .....	ABSTRACT CONTENTS TABULAR
Th. THORIUM .....	ABSTRACT CONTENTS TABULAR
ThC. THORIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
ThO2. THORIUM OXIDE. THORIA .....	ABSTRACT CONTENTS TABULAR
ThU. THORIUM-URANIUM .....	ABSTRACT CONTENTS TABULAR
ThUC. THORIUM-URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
ThUC2. THORIUM-URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR
ThUO2. THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
U. URANIUM .....	ABSTRACT CONTENTS TABULAR
UC. URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
UO2. URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
UPUC. URANIUM-PLUTONIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
Xe. XENON .....	ABSTRACT
<sup>K</sup> RATIO B4C. BORON CARBIDE .....	CONTENTS TABULAR
LEAKAGE, AEROSOL LEAKAGE AEROSOL, AEROSOL .....	ABSTRACT
<sup>L</sup> TE B4C. BORON CARBIDE .....	ABSTRACT CONTENTS TABULAR

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SS316. STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
SS321. STAINLESS STEEL 321 .....	ABSTRACT CONTENTS TABULAR
UO2. URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
LTC. COEFFICIENT OF THERMAL EXPANSION	
A286. STEEL A-286 .....	ABSTRACT CONTENTS TABULAR
1719. INCCNEL 1719 .....	ABSTRACT CONTENTS TABULAR
MCS. MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
S-CR. STEEL: 2.25 CR - 1 PC .....	ABSTRACT CONTENTS TABULAR
SS304. STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
SS316. STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
SS321. STAINLESS STEEL 321 .....	ABSTRACT CONTENTS TABULAR
UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
MP. MELTING POINT	
NA. SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR
NAK. SODIUM POTASSIUM 78 .....	ABSTRACT CONTENTS TABULAR
SS304. STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
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THO2.	THORIUM OXIDE, THORIA .....	ABSTRACT CONTENTS TABULAR
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THUC.	THORIUM-URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
THUC2.	THORIUM-URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR
THUCO2.	THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
U.	URANIUM .....	ABSTRACT CONTENTS TABULAR
UC.	URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
UC2.	URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR
UO2.	URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
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A286. STEEL A-286 .....	ABSTRACT	
IX750. INCONEL ALLOY X-750 .....	ABSTRACT	
I600. INCCNEL 1600 .....	ABSTRACT	
I718. INCONEL 1718 .....	ABSTRACT	
MCS. MEDIUM CARBON STEEL .....	ABSTRACT	
S-CR. STEEL: 2.25 CR - 1 WC .....	ABSTRACT	
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SS316. STAINLESS STEEL 316 .....	ABSTRACT	
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<b>PHASETR, PHASE TRANSITION TEMPERATURE</b>		
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THC2. THORIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR	
U. URANIUM .....	ABSTRACT CONTENTS TABULAR	
<b>EL. PROPORTIONAL ELASTIC LIMIT</b>		
S-CR. STEEL: 2.25 CR - 1 WC .....	ABSTRACT CONTENTS TABULAR	
SS316/20. STAINLESS STEEL 316 - 20% CB .....	ABSTRACT CONTENTS TABULAR	
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NA, SODIUM COOLANT .....	ABSTRACT ABSTRACT CONTENTS CONTENTS TABULAR TABULAR
NAK, SODIUM POTASSIUM 78 .....	ABSTRACT ABSTRACT CONTENTS CONTENTS TABULAR TABULAR
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AL-6061, ALUMINUM ALLOY 6061 .....	ABSTRACT CONTENTS TABULAR
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I718.	INCCNEL 1718 .....	ABSTRACT CONTENTS TABULAR
NA.	SODIUM COOLANT .....	ABSTRACT
S-CR.	STEEL: 2.25 CR - 1 NC .....	CONTENTS TABULAR
SS304.	STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
SS316.	STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
UPUO2.	URANIUM-PLUTONIUM OXIDE .....	ABSTRACT
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A286.	STEEL A-286 .....	ABSTRACT CONTENTS TABULAR
I600.	INCCNEL 1600 .....	ABSTRACT
I718.	INCCNEL 1718 .....	ABSTRACT CONTENTS TABULAR
MCS.	MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
SS316/20.	STAINLESS STEEL 316 - 20% CW ....	ABSTRACT
SRE/FLST.	STRAIN RATE EFFECT ON FLOW STRESS	
SS316.	STAINLESS STEEL 316 .....	ABSTRACT
SS316/20.	STAINLESS STEEL 316 - 20% CW ....	ABSTRACT
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S-CR.	STEEL: 2.25 CR - 1 NC .....	ABSTRACT ABSTRACT
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SSPARNC.	PARAMETERS FOR STRESS-STRAIN CYCLIC HARDENING	
S-CR.	STEEL: 2.25 CR - 1 NC .....	ABSTRACT CONTENTS TABULAR
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	STFRSWR. STRESS FREE SWELLING, IRRADIATION INDUCED SS16/20. STAINLESS STEEL 316 - 231 CM ....	ABSTRACT
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	STRCF. STRAIN CONTROLLED FATIGUE SS304. STAINLESS STEEL 304 .....	ABSTRACT
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	B4C. BORON CARBIDE .....	ABSTRACT CONTENTS TABULAR
	I600. INCONEL I600 .....	ABSTRACT CONTENTS TABULAR
	I718. INCONEL I718 .....	ABSTRACT CONTENTS TABULAR
	MCS. MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
	NA. SODIUM COOLANT .....	ABSTRACT CONTENTS TABULAR
	S-CR. STEEL; 2.25 CR - 1 MC .....	ABSTRACT CONTENTS TABULAR
	SS304. STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
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A286. STEEL A-286 .....	ABSTRACT CONTENTS TABULAR
CR30P. CR30P WELD .....	ABSTRACT CONTENTS TABULAR
I600. INCONEL 1600 .....	ABSTRACT CONTENTS TABULAR
I718. INCONEL 1718 .....	ABSTRACT CONTENTS TABULAR
MCS. MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
S-CR. STEEL: 2.25 CR - 1 MC .....	ABSTRACT CONTENTS TABULAR
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	SS316/20. STAINLESS STEEL 316 - 20% CW .....	ABSTRACT CONTENTS TABULAR
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	SS316/20. STAINLESS STEEL 316 - 20% CW .....	ABSTRACT CONTENTS TABULAR
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	A286. STEEL A-286 .....	ABSTRACT CONTENTS TABULAR
	CRE308. CRE308 WELD .....	ABSTRACT CONTENTS TABULAR
	160J. INCCNEL 1600 .....	ABSTRACT CONTENTS TABULAR
	1710. INCCNEL 1710 .....	ABSTRACT CONTENTS TABULAR
	MCS. MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
	S-CR. STEEL: 2.25 CR - 1 NC .....	ABSTRACT ABSTRACT CONTENTS TABULAR
	SS304. STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
	SS316. STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
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VI. VISCOSITY	AIR/AR. AIR-ARGON .....	ABSTRACT
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ThUO2. THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS	
UC. URANIUM CARBIDE .....	TABULAR ABSTRACT CONTENTS	
UO2. URANIUM DIOXIDE .....	TABULAR ABSTRACT CONTENTS	
UPUC. URANIUM-PLUTONIUM CARBIDE .....	TABULAR ABSTRACT CONTENTS	
UPUO2. URANIUM-PLUTONIUM OXIDE .....	TABULAR ABSTRACT CONTENTS	
VP. VAPOR PRESSURE		
NA. SODIUM COOLANT .....	ABSTRACT CONTENTS	
NAK. SODIUM POTASSIUM 70 .....	TABULAR ABSTRACT CONTENTS	
SS304. STAINLESS STEEL 304 .....	TABULAR ABSTRACT CONTENTS	
SS316. STAINLESS STEEL 316 .....	TABULAR ABSTRACT CONTENTS	
UO2. URANIUM DIOXIDE .....	TABULAR ABSTRACT CONTENTS	
UPUO2. URANIUM-PLUTONIUM OXIDE .....	TABULAR ABSTRACT CONTENTS	
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THUO2. THORIUM-URANIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
U. URANIUM .....	ABSTRACT CONTENTS TABULAR
UC. URANIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
UC2. URANIUM DICARBIDE .....	ABSTRACT CONTENTS TABULAR
UO2. URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
UPUC. URANIUM-PLUTONIUM CARBIDE .....	ABSTRACT CONTENTS TABULAR
UPUO2. URANIUM-PLUTONIUM OXIDE .....	ABSTRACT CONTENTS TABULAR
WSC. WATER SIDE CORROSION S-CR. STEEL; 2.25 CR - 1 MC .....	ABSTRACT CONTENTS TABULAR
YM. YOUNG'S MODULUS (MODULUS OF ELASTICITY) A286. STEEL A-286 .....	ABSTRACT CONTENTS TABULAR
I600. INCONEL 1600 .....	ABSTRACT CONTENTS TABULAR
I718. INCONEL 1718 .....	ABSTRACT CONTENTS TABULAR
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UPUO2, URANIUM-PLUTONIUM OXIDE .....	ABSTRACT
YS, YIELD STRENGTH	
AL-5061, ALUMINUM ALLOY 6061 .....	ABSTRACT CONTENTS TABULAR
A296, STEEL A-296 .....	ABSTRACT CONTENTS TABULAR
CRE308, CRE308 WELD .....	ABSTRACT CONTENTS TABULAR
I600, INCONEL 600 .....	ABSTRACT CONTENTS TABULAR
I718, INCONEL 718 .....	ABSTRACT CONTENTS TABULAR
MCS, MEDIUM CARBON STEEL .....	ABSTRACT CONTENTS TABULAR
S-CR, STEEL: 2.25 CR - 1 MC .....	ABSTRACT CONTENTS TABULAR
SS304, STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR
SS316, STAINLESS STEEL 316 .....	ABSTRACT CONTENTS TABULAR
SS316/20, STAINLESS STEEL 316 - 20% CW .....	ABSTRACT CONTENTS TABULAR
UO2, URANIUM DIOXIDE .....	ABSTRACT CONTENTS TABULAR
16-8-2WM, 16-8-2 WELD METAL .....	ABSTRACT CONTENTS TABULAR
308/309L, 308/309L WELD METAL .....	ABSTRACT CONTENTS TABULAR
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SS304, STAINLESS STEEL 304 .....	ABSTRACT CONTENTS TABULAR

Table 3 lists the parameters in a file of data for the AIRDOS-II<sup>2</sup> code.

Table 4 lists parameters in a file for the INREM<sup>3</sup> code.

Table 5 lists parameters in a file for the EXREM-III<sup>4</sup> code.

Table 6 lists parameters in a file for the CCMRADEX-III<sup>5</sup> code.

Table 7 lists parameters in a file for the MEDLIST<sup>6</sup> data.

Finally, a compilation of abstracts on documented computer codes applicable to the environment assessment of radioactivity releases<sup>7</sup> has also been included in the data base.

#### Table 3. File of Parameters Related to AIRDOS-II

This file contains the following items for 105 separate radionuclides:

1. Decay Constant
2. Dose Conversion Factor for Submersion in Air
3. Dose Conversion Factor for Submersion in Water
4. Dose Conversion Factor for Surface Exposure
5. Dose Conversion Factors as a Function of Body Organs
6. Concentration in Meat
7. Concentration in Forage
8. Concentration in Soil
9. Concentration in Man
10. Fraction of Isotope Ingested and Secreted
11. Turnover Rate in Man
12. Equilibrium Mass in Man
13. Excretion Rate from Steer Muscle
14. Environmental Decay Constant for Surface
15. Environmental Decay Constant for Water
16. Dose Conversion Factors for Inhalation as a Function of Body Organs
17. Dose Conversion Factors for Ingestion as a Function of Body Organs

**Table 4. File of Parameters Related to INREM**

**This file contains the following items for 259 separate radionuclides:**

- 1. Half-Life**
- 2. Effective Half-Lives by Body Organ**
- 3. Effective Absorbed Energies by Body Organ**
- 4. Inhalation Uptake Fractions by Body Organ**
- 5. Ingestion Uptake Fractions by Body Organ**
- 6. Maximum Permissible Concentrations in Air and Water for Soluble and Insoluble Material**

**Table 5. File of Parameters Related to EXREM-III**

**This file contains the following items for 196 radionuclides:**

- 1. Decay Constant**
- 2. Z-numbers**
- 3. Important  $\beta$ -Particles Emitted**
- 4. Important Positrons Emitted**
- 5. Important Conversion Electrons Emitted**
- 6. Important Photons Emitted**
- 7. Decay Pathways**

**Table 6. File of Parameters Related to COMRADEX-III**

This file contains:

1. Pasquill Factor Data
2. 50-Year Commitment Dose Conversion Factors by Body Organ for 295 Nuclides
3. Decay Constants
4. Decay Chain Information
5. "Effective"  $\beta$  and  $\gamma$  Energies
6. Regulatory Guide 1.109<sup>b</sup> Dose Factors for 139 Nuclides as a Function of Body Organ

**Table 7. File of Nuclear Decay Data for 219 Selected Radionuclides as Calculated by MEDL.IST<sup>6</sup>**

For each atomic and nuclear radiation emitted by the radioactive atoms

1. Half-Life
2. Energy
3. Intensity (probability per decay)
4. Equilibrium absorbed-dose constants

## GLOSSARY OF ABBREVIATIONS

Most data in SACRD are cataloged by five eight-character alphanumeric qualifiers:

1. A file name
2. A property name
3. A material name
4. A version name
5. A type of data; for example, abstract, tabular, parameterized

In addition to these, several other qualifiers internal to the data base require eight-character names; for example, variable names -- temperature, pressure, etc., and units names -- ft./sec., cal./mole, etc.

This document contains eight tables which serve to identify those abbreviations:

<u>Table</u>	<u>Type of Information</u>
8	File Names
9	Property Names by File
10	Property Names (All)
11	Independent Variable Names
12	Units Names by Property
13	Units Names (All)
14	Material Names
15	Version Names

TABLE 8 - FILE NAMES (08/16/78)

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CH	-	CHEMICAL DATA
FM	-	FLUID MECHANICS
HT	-	HEAT TRANSFER DATA
ME	-	METEOROLOGICAL DATA
NE	-	NEUTRONICS DATA
PH	-	PHYSICS FILE
SM	-	STRUCTURAL MECHANICS FILE
TH	-	THERMODYNAMICS DATA
TR	-	TRANSPORT PROPERTIES
UN	-	UNEVALUATED DATA

TABLE 9 - PROPERTY NAMES BY FILE (08/16/78) PAGE 1

CH - CHEMICAL DATA  
   ASC - AIR SIDE CORROSION  
   BRKFRMA - COATING BREAKAWAY FRICTION IN SODIUM  
   CHCOMP - CHEMICAL COMPOSITION & CRYSTAL STRUCTURE  
   CORR - CORROSION  
   DCS - DECARBURIZATION IN SODIUM  
   DIFFCHAR - DIFFUSION CHARACTERISTIC  
   HEATPEAC - HEAT OF REACTION  
   MASSDEC - MASS DECREASE  
   NACORR - SODIUM CORROSION & DECARBURIZATION IN SODIUM  
   PF - PRODUCT FORMS & APPLICABLE SPECIFICATIONS  
   SSD - SODIUM-SIDED DEPOSITION  
   WSC - WATER SIDE CORROSION  
 FM - FLUID MECHANICS  
   FF - FRICTION FACTOR  
   GPD - GEOMETRIC PRESSURE DROP  
   ML - MIXING LENGTH  
 HT - HEAT TRANSFER DATA  
   CONCOEF - CONDENSATION COEFFICIENT  
   PRANDTL - PRANDTL NUMBER  
 ME - METEOROLOGICAL DATA  
   GCE - GRAVITATIONAL COLLISION EFFICIENCY  
   LEAKAGE - AEROSOL LEAKAGE  
   PARTSIZE - PARTICLE SIZE  
   PLATEOUT - PLATEOUT PARAMETER  
 NE - NEUTRONICS DATA



TABLE 9 - PROPERTY NAMES BY FILE (08/16/78) PAGE 2

DNF	- DELAYED NEUTRON FRACTION
DNPDC	- DELAYED NEUTRON PRECURSOR DECAY CONSTANTS
DOPPCOEF	- DOPPLER COEFFICIENT
ERC	- ENERGY RELEASE PER CAPTURE
ERF	- ENERGY RELEASE PER FISSION
FGGR	- FISSION GAS GENERATION RATE
FPOC	- FISSION PRODUCT DECAY CONSTANT
FPY	- FISSION PRODUCT YIELDS
HD	- HEAT OR ENERGY DEPOSITION AS FUNCTION OF FLUENCE
PH	- PHYSICS FILE
ELECRES	- ELECTRICAL RESISTIVITY
SM	- STRUCTURAL MECHANICS FILE
BCTFS	- BRIDGEPAN CORRECTED TRUE FRACTURE STRESS
BDUCT	- BURST DUCTILITY
BM	- BULK MODULUS
BPRESS	- BURST PRESSURE
BRINELL	- BRINELL HARDNESS
BRKFRIC	- BREAKAWAY FRICTION COEFFICIENT
BSR	- BIAXIAL STRESS RATIO
BTEMP	- BURST TEMPERATURE
CCT	- CONTINUOUS COOLING TRANSFORMATION
CDC	- CARBON DIFFUSION COEFFICIENT
CH	- CRACK HEALING
CR	- CREEP
CRD	- CREEP DUCTILITY
CRTE	- TOTAL ELONGATION IN CREEP AT RUPTURE

TABLE 9 - PROPERTY NAMES BY FILE (08/16/78) PAGE 3

DF	- DAMAGE FUNCTION
DS	- DYNAMIC STRENGTH
DYNFRICD	- DYNAMIC FRICTION COEFFICIENT
ENTRATE	- ENTRAINMENT RATE
FCGB	- FATIGUE-CRACK GROWTH BEHAVIOR
FCGB/SR	- FATIGUE-CRACK GROWTH BEHAVIOR, STRESS RATIO EFF.
FRICTION	- FRICTION (F COATING VS. SELF IN NA
FS	- FRACTURE STRENGTH
GENGUIDE	- GEN. GUIDELINES TO FRICTION, WEAR, SELF-WELDING
GG	- GRAIN GROWTH
ICC	- AVERAGE INTERSTITIAL CARBON CONCENTRATION
INTCCN	- AVERAGE INTERSTITIAL (C+N) CONCENTRATION
MRTD	- MINIMUM ROOM TEMPERATURE PROPERTIES
MSP	- MINIMUM SPECIFIED PROPERTIES
PL	- PROPORTIONAL LIMIT
POISSRAT	- POISSON'S RATIO
RA	- REDUCTION OF AREA
RBH	- ROCKWELL 2 HARDNESS
RM	- RUPTURE MODULUS
SCC	- SURFACE CARBON CONCENTRATION
SM	- SHEAR MODULUS
SR	- STRESS RUPTURE
SRE/FLST	- STRAIN RATE EFFECT ON FLOW STRESS
SRE/STST	- STRAIN RATE EFFECTS ON STRESS-STRAIN
SSPARN	- PARAMETERS FOR STRESS-STRAIN CYCLIC HARDENING
SSPARNC	- "C" PARAMETER FOR STRESS-STRAIN CYCLIC HARDENING

TABLE 9 - PROPERTY NAMES BY FILE (08/16/78) PAGE 4

SSPARMEN - MEMO PARAMETER-STRESS STRAIN CYCLIC HARDENING  
 STFRSWIR - STRESS FREE SWELLING, IRRADIATION INDUCED  
 STRCF - STRAIN CONTROLLED FATIGUE  
 STSTR - STRESS STRAIN  
 SWELLOF - SWELLING DAMAGE FUNCTION  
 SWELLING - SWELLING  
 TE - TOTAL ELONGATION  
 TEDF - TOTAL ELONGATION DAMAGE FUNCTION  
 TENSILTE - TOTAL TENSILE ELONGATION  
 TFS - TENSILE FLOW STRESS  
 TFSAGED - TENSILE FLOW STRESS AGED  
 TFSIR - TENSILE FLOW STRESS IRRADIATED  
 THCR - THERMAL CREEP  
 TOUGH - TOUGHNESS FOR TENSILE INSTABILITY  
 TS - TENSILE STRENGTH  
 TSTS - TRUE STRESS - TRUE STRAIN  
 UE - UNIFORM ELONGATION  
 UEDF - UNIFORM ELONGATION DAMAGE FUNCTION  
 LTS - ULTIMATE TENSILE STRENGTH  
 UTSOF - ULTIMATE TENSILE STRENGTH DAMAGE FUNCTION  
 YM - YOUNG'S MODULUS  
 YMS - YOUNG'S MODULUS STATIC  
 YS - YIELD STRENGTH  
 YSOILIN - EQUIV. BILINEAR YIELD STRENGTH  
 YSOF - YIELD STRENGTH DAMAGE FUNCTION  
 YSTRESS - YIELD STRESS

TABLE 9 - PROPERTY NAMES BY FILE (08/16/78) PAGE 5

TH	- THERMODYNAMICS DATA
BP	- BOILING POINT
COMPRESS	- COMPRESSIBILITY
CP	- SPECIFIC HEAT AT CONSTANT PRESSURE
CP/CV	- SPECIFIC HEAT RATIO
CRITD	- CRITICAL DENSITY
CRITP	- CRITICAL PRESSURE
CRITT	- CRITICAL TEMPERATURE
CV	- SPECIFIC HEAT AT CONSTANT VOLUME
DENATMP	- CHANGE IN DENSITY ON MELTING
DENSITY	- DENSITY
DEPCOMP	- PERCENT DEPARTURE OF COMPRESSIBILITY FACTOR
ENTHALPY	- ENTHALPY
ENTROPY	- ENTROPY
EOS	- EQUATION OF STATE
GASCON	- GAS CONSTANT
MF	- LATENT HEAT OF FUSION
MV	- LATENT HEAT OF VAPORIZATION
IC	- ISOTHERMAL COMPRESSIBILITY
IE	- INTERNAL ENERGY
JTEXPAN	- JOULE THOMPSON EXPANSION
LTE	- LINEAR THERMAL EXPANSION
LTEC	- LINEAR THERMAL EXPANSION COEFFICIENT
MP	- MELTING POINT
MPIR	- MELTING POINT OF IRRADIATED MATERIAL
PHASETR	- PHASE TRANSITION TEMPERATURE

TABLE 9 - PROPERTY NAMES BY FILE (08/16/78) PAGE 5

PVT - PRESSURE-VOLUME-TEMPERATURE  
 SPECVOL - SPECIFIC VOLUME  
 SS - SPEED OF SOUND  
 ST - SURFACE TENSION  
 TTI - TRANSITION TEMPERATURE INCREASE  
 TTIDF - TRANSIENT TEMPERATURE INCREASE DAMAGE FUNCTION  
 VP - VAPOR PRESSURE  
 VTEC - VOLUMETRIC THERMAL EXPANSION COEFFICIENT  
 TR - TRANSPORT PROPERTIES  
   EM - EMISSIVITY  
   EMSPEC - NORMAL SPECTRAL EMISSIVITY  
   EMSPECH - HEMISPHERICAL SPECTRAL EMITTANCE  
   EMTOT - NORMAL TOTAL EMISSIVITY  
   K - THERMAL CONDUCTIVITY  
   KRATIO - THERMAL CONDUCTIVITY RATIO  
   MD - MASS DIFFUSIVITY  
   TD - THERMAL DIFFUSIVITY  
   VI - VISCOSITY  
 UN - UNEVALUATED DATA

TABLE 13 - PROPERTY NAMES (08/16/78)

PAGE 1

ASC	- AIR SIDE CORROSION	- CH FILE
BCFCS	- BRIDGMAN CORRECTED TRUE FRACTURE STRESS	- SM FILE
BDUCT	- BURST DUCTILITY	- SM FILE
BN	- BULK MODULUS	- SM FILE
BP	- BOILING POINT	- TH FILE
BPRESS	- BURST PRESSURE	- SM FILE
BRINELL	- BRINELL HARDNESS	- SM FILE
BRKFRIC0	- BREAKAWAY FRICTION COEFFICIENT	- SM FILE
BRKFRMA	- COATING BREAKAWAY FRICTION IN SOLUTION	- CH FILE
BSR	- BIAXIAL STRESS FUTURE	- SM FILE
BTEMP	- BURST TEMPERATURE	- SM FILE
CCT	- CONTINUOUS COOLING TRANSFORMATION	- SM FILE
CDC	- CARBON DIFFUSION COEFFICIENT	- SM FILE
CH	- CRACK HEALING	- SM FILE
CHCOMP	- CHEMICAL COMPOSITION & CRYSTAL STRUCTURE	- CH FILE
COMPRESS	- COMPRESSIBILITY	- TH FILE
CONDCOEF	- CONDENSATION COEFFICIENT	- HT FILE
CORR	- CORROSION	- CH FILE
CP	- SPECIFIC HEAT AT CONSTANT PRESSURE	- TH FILE
CP/CV	- SPECIFIC HEAT RATIO	- TH FILE
CR	- CREEP	- SM FILE
CRD	- CREEP DUCTILITY	- SM FILE
CRID	- CRITICAL DENSITY	- TH FILE
CRIP	- CRITICAL PRESSURE	- TH FILE
CRIT	- CRITICAL TEMPERATURE	- TH FILE
CRTE	- TOTAL ELONGATION IN CREEP AT RUPTURE	- SM FILE

TABLE 10 - PROPERTY NAMES (08/16/78)

PAGE 2

CV	- SPECIFIC HEAT AT CONSTANT VOLUME	- TH FILE
DCS	- DECARBURIZATION IN SODIUM	- CH FILE
DENATMP	- CHANGE IN DENSITY ON MELTING	- TH FILE
DENSITY	- DENSITY	- TH FILE
DEPCOF	- PERCENT DEPARTURE OF COMPRESSIBILITY FACTOR	- TH FILE
DF	- DAMAGE FUNCTION	- SM FILE
DIFFCHAR	- DIFFUSION CHARACTERISTIC	- CH FILE
DNF	- DELAYED NEUTRON FRACTION	- NE FILE
DNPDC	- DELAYED NEUTRON PRECURSOR DECAY CONSTANTS	- NE FILE
DOPPCOEF	- DOPPLER COEFFICIENT	- NE FILE
DS	- DYNAMIC STRENGTH	- SM FILE
DYNFRIC	- DYNAMIC FRICTION COEFFICIENT	- SM FILE
ELECRES	- ELECTRICAL RESISTIVITY	- TH FILE
EM	- EMISSIVITY	- TR FILE
ENSPEC	- NORMAL SPECTRAL EMISSIVITY	- TR FILE
ENSPECH	- HEMISPHERICAL SPECTRAL EMITTANCE	- TR FILE
EMTOT	- NORMAL TOTAL EMISSIVITY	- TR FILE
ENTHALPY	- ENTHALPY	- TH FILE
ENTRATE	- ENTRAINMENT RATE	- SM FILE
ENTROPY	- ENTROPY	- TH FILE
EOS	- EQUATION OF STATE	- TH FILE
ERC	- ENERGY RELEASE PER CAPTURE	- NE FILE
ERF	- ENERGY RELEASE PER FISSION	- NE FILE
FCGB	- FATIGUE-CRACK GROWTH BEHAVIOR	- SM FILE
FCGR/SR	- FATIGUE-CRACK GROWTH BEHAVIOR, STRESS RATIO EFF.	- SM FILE
FF	- FRICTION FACTOR	- FM FILE

TABLE 10 - PROPERTY NAMES (08/16/78)

PAGE 3

FGGR	- FISSION GAS GENERATION RATE	- NE FILE
FPOC	- FISSION PRODUCT DECAY CONSTANT	- NE FILE
FPY	- FISSION PRODUCT YIELDS	- NE FILE
FRICTION	- FRICTIGN OF COATING VS. SELF IN NA	- SM FILE
FS	- FRACTURE STRENGTH	- SM FILE
GASCON	- GAS CONSTANT	- TH FILE
GCE	- GRAVITATIONAL COLLISION EFFICIENCY	- NE FILE
GENGUIDE	- GEN. GUIDELINES TO FRICTION, WEAR, SELF-WELDING	- SM FILE
GG	- GRAIN GROWTH	- SM FILE
GPD	- GEOMETRIC PRESSURE COEF	- FM FILE
HD	- HEAT OR ENERGY DEPOSITION AS FUNCTION OF FLUENCE	- NE FILE
HEATREAC	- HEAT OF REACTION	- CH FILE
HF	- LATENT HEAT OF FUSION	- TH FILE
HV	- LATENT HEAT OF VAPORIZATION	- TH FILE
IC	- ISOTHERMAL COMPRESSIBILITY	- TH FILE
ICC	- AVERAGE INTERSTITIAL CARBON CONCENTRATION	- SM FILE
IE	- INTERNAL ENERGY	- TH FILE
INTCCN	- AVERAGE INTERSTITIAL (C+N) CONCENTRATION	- SM FILE
JTEXPAN	- JOULE THOMSON EXPANSION	- TH FILE
K	- THERMAL CONDUCTIVITY	- TR FILE
KRATIO	- THERMAL CONDUCTIVITY RATIO	- TR FILE
LEAKAGE	- AEROSOL LEAKAGE	- NE FILE
LTE	- LINEAR THERMAL EXPANSION	- TH FILE
LTEC	- LINEAR THERMAL EXPANSION COEFFICIENT	- TH FILE
MASSDEC	- MASS DECREASE	- CH FILE
MD	- MASS DIFFUSIVITY	- TR FILE



TABLE 10 - PROPERTY NAMES (08/16/78)

PAGE 4

ML	- MIXING LENGTH	- FM FILE
MP	- MELTING POINT	- TM FILE
MPIR	- MELTING POINT OF IRRADIATED MATERIAL	- TM FILE
MRTF	- MINIMUM ROOM TEMPERATURE PROPERTIES	- SM FILE
MSP	- MINIMUM SPECIFIED PROPERTIES	- SM FILE
MACORR	- SODIUM CORROSION & DECARBURIZATION IN SODIUM	- CM FILE
PARTSIZE	- PARTICLE SIZE	- N. FILE
PF	- PRODUCT FORMS & APPLICABLE SPECIFICATIONS	- CM FILE
PHASETR	- PHASE TRANSITION TEMPERATURE	- TM FILE
PL	- PROPORTIONAL LIMIT	- SM FILE
PLATEOUT	- PLATEOUT PARAMETER	- ME FILE
POISRAT	- POISSON'S RATIO	- SM FILE
PRANDTL	- PRANDTL NUMBER	- HT FILE
PVT	- PRESSURE-VOLUME-TEMPERATURE	- TM FILE
RA	- REDUCTION OF AREA	- SM FILE
RBH	- ROCKWELL B HARDNESS	- SM FILE
RM	- RUPTURE MODULUS	- SM FILE
SCC	- SURFACE CARBON CONCENTRATION	- SM FILE
SM	- SHEAR MODULUS	- SM FILE
SPECVOL	- SPECIFIC VOLUME	- TM FILE
SR	- STRESS RUPTURE	- SM FILE
SRE/FLST	- STRAIN RATE EFFECT ON FLOW STRESS	- SM FILE
SRE/STST	- STRAIN RATE EFFECTS ON STRESS-STRAIN	- SM FILE
SS	- SPEED OF SOUND	- TM FILE
SSD	- SODIUM-SIDED DEPOSITION	- CM FILE
ESPARM	- PARAMETERS FOR STRESS-STRAIN CYCLIC HARDENING	- SM FILE

TABLE 10 - PROPERTY NAMES (08/16/78)

PAGE 5

SSPARNC	- "C" PARAMETER FOR STRESS-STRAIN CYCLIC HARDENING	- SM FILE
SSPARNEN	- "EN" PARAMETER STRESS STRAIN CYCLIC HARDENING	- SM FILE
ST	- SURFACE TENSION	- TM FILE
STFRSWIR	- STRESS FREE SWELLING, IRRADIATION INDUCED	- SM FILE
STRCF	- STRAIN CONTROLLED FATIGUE	- SM FILE
STSTR	- STRESS STRAIN	- SM FILE
SWELLOF	- SWELLING DAMAGE FUNCTION	- SM FILE
SWELLING	- SWELLING	- SM FILE
TD	- THERMAL DIFFUSIVITY	- TR FILE
TE	- TOTAL ELONGATION	- SM FILE
TEDF	- TOTAL ELONGATION DAMAGE FUNCTION	- SM FILE
TENSILTE	- TOTAL TENSILE ELONGATION	- SM FILE
TFS	- TENSILE FLOW STRESS	- SM FILE
TFSAGED	- TENSILE FLOW STRESS AGED	- SM FILE
TFSIR	- TENSILE FLOW STRESS IRRADIATED	- SM FILE
THCR	- THERMAL CREEP	- SM FILE
TOUGH	- TOUGHNESS FOR TENSILE INSTABILITY	- SM FILE
TS	- TENSILE STRENGTH	- SM FILE
TSST	- TRUE STRESS - TRUE STRAIN	- SM FILE
TTI	- TRANSITION TEMPERATURE INCREASE	- TM FILE
TTIDF	- TRANSIENT TEMPERATURE INCREASE DAMAGE FUNCTION	- TM FILE
LE	- UNIFORM ELONGATION	- SM FILE
UEDF	- UNIFORM ELONGATION DAMAGE FUNCTION	- SM FILE
LTS	- ULTIMATE TENSILE STRENGTH	- SM FILE
LTDF	- ULTIMATE TENSILE STRENGTH DAMAGE FUNCTION	- SM FILE
VI	- VISCOSITY	- TR FILE

TABLE 10 - PROPERTY NAMES (08/16/78)

PAGE 5

VP	- VAPOR PRESSURE	- TM FILE
VTEC	- VOLUMETRIC THERMAL EXPANSION COEFFICIENT	- TM FILE
WSC	- WATER SIDE CORROSION	- CH FILE
YM	- YOUNG'S MODULUS	- SM FILE
YMS	- YOUNG'S MODULUS STATIC	- SM FILE
YS	- YIELD STRENGTH	- SM FILE
YSBILIN	- EQUIV. BILINEAR YIELD STRENGTH	- SM FILE
YSDF	- YIELD STRENGTH DAMAGE FUNCTION	- SM FILE
YSTRESS	- YIELD STRESS	- SM FILE

TABLE 11 - INDEPENDENT VARIABLES (08/16/78)

PAGE 1

ACTIVITY - ACTIVITY  
 AREA - AREA  
 ASMECODE - ASME CODE YEAR  
 BURNUP - BURNUP  
 CURVE - CURVE  
 DELTAL/L - CHANGE IN LENGTH PER LENGTH  
 DELTAWT - CHANGE IN WEIGHT  
 DENSITY - DENSITY  
 DWELTIME - DWELL TIME  
 ENERGRP - ENERGY GROUP  
 ENERGY - ENERGY  
 ENERLB - LOWER ENERGY BOUNDARY  
 EPSMAX - EPSILON MAX  
 EXPOSURE - EXPOSURE  
 FISSRTE - FISSION RATE  
 FLUENCE - FLUENCE  
 FORCE - FORCE  
 GAUGE - GAUGE LENGTH  
 HOOPSTR - HOOP STRESS  
 LENGTH - LENGTH  
 MASS - MASS  
 MASSDEC - MASS DECREASE  
 MAT - MATERIAL  
 METAL - METAL  
 MOLEFRAC - MOLE FRACTION  
 MPDEC - MELTING POINT DECREASE

TABLE 11 - INDEPENDENT VARIABLES (08/16/79)

PAGE 2

MPPUO2	- MOLECULAR PERCENT OF PU-UC2
O/M	- OXYGEN TO METAL RATIO
OXYGEN	- OXYGEN
OXYSR	- OXYGEN STOICHIOMETRIC RATIO
PARAM	- PARAMETERS
PCT	- PERCENT
PHASE	- PHASE
PLSTR	- PLASTIC STRAIN
POROSITY	- FRACTIONAL POROSITY
PRESSURE	- PRESSURE
PTD	- PERCENT THEORETICAL DENSITY
RTHIN	- ROOM TEMPERATURE, MINIMUM
SCALECON	- SCALING CONSTANT
SENERGY	- SPECIFIC ENERGY
SHAPE	- SHAPE
STATE	- STATE OF MATERIAL (SOLID, LIQUID, VAPOR)
STRESS	- STRESS
STRATE	- STRAIN RATE
SURFCOND	- SURFACE CONDITION
TABLE	- TABLE
TEMP	- TEMPERATURE
TEMPAGE	- AGEING TEMPERATURE
TEMPER	- TEMPER
TEMPIR	- IRRADIATION TEMPERATURE
TEMPTST	- TEST TEMPERATURE
THICK	- THICKNESS

TABLE 11 - INDEPENDENT VARIABLES (08/16/79)

PAGE 3

TIME	- TIME
TRANSNT	- TRANSIENT
TYPE	- TYPE
VELOCITY	- VELOCITY
VOLUME	- VOLUME
WAVELEN	- WAVELENGTH
WPPUO2	- WEIGHT PERCENT OF PU-UC2

TABLE 12 - UNITS NAMES BY PROPERTY (08/16/78) PAGE 1

## AREA

M2	SI	METRES SQUARED
BARN		BARN
CM2		CENTIMETRE SQUARED
FT2		FEET SQUARED
KM2		KILOMETRE SQUARED
MILE2		MILE SQUARED
MM2		MILLIMETRES SQUARED
YD2		YARD SQUARED

## CONCENTRATION

PPM	SI	PARTS PER BILLION
VOLFRAC		VOLUME FRACTION

## CORROSION

G/M2	SI	GRAMS PER METRE SQUARED
G/M2/HR	SI	GRAMS PER METRE SQUARED PER HOUR
MGC2M.5	SI	MILLIGRAMS/CM SQUARED/SQUARE ROOT OF HOURS
UM/YR-PO	SI	MICROMETRES PER YEAR PER PPM OXYGEN

## DENSITY

KG/M3	SI	KILOGRAM PER METRE CUBED
G/CM3		GRAMS PER CUBIC CENTIMETRE
LB/IN3		POUNDS PER CUBIC INCH
MEGAG/M3		MEGAGRAM PER CUBIC METRE

## ELEC. RESISTIVITY

UMH-M	SI	MICROHM METRES
NANOHM-M		NANOHM PER METRE
UMH-IN		MICROHM INCHES

TABLE 12 - UNITS NAMES BY PROPERTY (08/16/78) PAGE 2

UMHM/CM		MICROHM PER CENTIMETRE
ELONGATION		
MICROS/C	SI	MICROS PER DEGREE CENTIGRADE
MM/M	SI	MILLIMETRES/METRE
PCT	SI	PERCENT
PCT2DIAM	SI	PCT CHANGE IN DIAMETER
PCT3INMM	SI	PCT IN 3.00 MM
PCTIN2IN		PCT IN 2 INCHES
PCT1INCH		PCT IN 1.00 INCH
ENERGY		
J	SI	JOULES
AMU		ATOMIC MASS UNITS
BEV		BILLION ELECTRON VOLTS
BTU		BRITISH THERMAL UNIT (THERMOCHEMICAL)
CAL		CALORIES (THERMOCHEMICAL)
ERG		ERGS
EV		ELECTRON VOLTS
FT-LB		FOOT POUNDS
KCAL		KILCALORIE (THERMOCHEMICAL)
KW-HR		KILOWATT HOURS
MEV		MILLION ELECTRON VOLTS
ENTHALPY		
CAL/MOL	SI	CALORIES PER MOLE
J/MOL	SI	JOULES PER MOLE
J/KG		JOULES PER KILOGRAM
KJ/KG		KILOJOULES PER KILOGRAM

TABLE 12 - UNITS NAMES BY PROPERTY (08/16/78) PAGE 3

KJ/MOL		KILCJouLES PER MOLE
FRICTION COEFFICIENT		
DELTA MU		DELTA MU
IRRADIATION		
MWD/MTM		MEGAWATT DAYS PER METRIC TON
N/CM2		NEUTRON PER SQUARE CENTIMETRE
ISOTHERM. COMPRESS.		
1/GPA	SI	PER GIGAPASCAL
1/PA	SI	PER PASCAL
LATENT HEAT		
CAL/MOL		CALORIES/PCLE
J/KG		JOULES PER KILCGRAM
J/MOL		JOULES PER PCLE
KJ/KG		KILCJouLES PER KILOGRAM
LENGTH		
KM	SI	KILCMETRES
M	SI	METRES
MICRON	SI	MICRONS
MM	SI	MILLIMETRES
UM	SI	MICROMETRES
ANGSTROM		ANGSTROMS
CM		CENTIMETRES
FT		FEET
IN		INCHES
MILE		MILES
YD		YARDS

TABLE 12 - UNITS NAMES BY PROPERTY (08/16/78) PAGE 4

MASS		
KG	SI	KILOGRAMS
AMU		ATOMIC MASS UNIT
G		GRAMS
MG		MILLIGRAM
UG		MICROGRAM
O/N		
NONE		NONE--VARIABLE HAS NO UNITS
OXYGEN		
NONE		NONE--VARIABLE HAS NO UNITS
PRESSURE		
GPA	SI	GIGA PASCALS
J/M <sup>3</sup>	SI	JOULE PER METRE CUBED
MEGAN/M <sup>2</sup>	SI	MEGANEWTONS PER METRE SQUARED
MEGGM/M <sup>3</sup>	SI	MEGAGRAN PER METRE CUBED
MPA	SI	MEGAPASCAL
PA	SI	PASCALS OR NEWTONS PER METRE SQUARED
ATM		ATMOSPHERES
FTLB/FT <sup>3</sup>		FOOT-POUND PER FEET CUBED
PSI		POUNDS PER SQUARE INCH
TORR		TORR (0 DEG. C)
SENERGY		
KCAL/MOL	SI	KILCALORIES PER MOLE
SODIUM CORROSION		
SEC		SECOND
SPECIFIC HEAT		
J/KG-K	SI	JOULES PER KILOGRAM-KELVIN



TABLE 12 - UNITS NAMES BY PROPERTY (JG/16/78) PAGE 5

KJ/KG-K	SI	KILOJOULES PER KILOGRAM-KELVIN
BTU/LB-F		BTU PER POUND DEGREE FAHRENHEIT
C/MOL-K		CALORIES PER MOLE-KELVIN
J/MOL-K		JOULES PER MOLE-KELVIN
SPECIFIC VOLUME		
M <sup>3</sup> /KG	SI	METRES CUBED PER KILOGRAM
FT <sup>3</sup> /LBM		FEET CUBED PER POUND-MASS
STATE		
NONE		NONE--VARIABLE HAS NO UNITS
STRESS STRAIN PARAM.		
MPA <sup>2</sup>		MEGAPASCALS SQUARED
SURFACE TENSION		
NN/M	SI	MILLINEWTONS PER METRE
N/M	SI	NEWTONS PER METRE
TEMPERATURE		
K	SI	KELVIN
C		CENTIGRADE
F		FAHRENHEIT
R		RAANKINE
THERMAL CONDUCT.		
W/M-K	SI	WATTS PER METRE-KELVIN
BTU/HFTF		BTU PER HOUR-FOOT-DEGREE F
BTU/HFTR		BTU PER HOUR-FOOT-DEGREE R
W/CM-K		WATTS PER CENTIMETRE-KELVIN
THERMAL DIFFUSIVITY		
MM <sup>2</sup> /SEC	SI	MILLIMETRES SQUARED PER SECOND

TABLE 12 - UNITS NAMES BY PROPERTY (08/16/78) PAGE 5

M <sup>2</sup> /SEC	SI	METRE SQUARED PER SECOND
UM <sup>2</sup> /SEC	SI	MICROMETRES SQUARED PER SECCND
CM <sup>2</sup> /SEC		CENTIMETRE SQUARED PER SECOND
THERMAL EXP. CCEFF.		
1/K		PER KELVIN
1E-6/K		1.E-6 PER KELVIN
TIME		
MIN**1/2	SI	SQUARE FOOT CF MINUTES
SEC	SI	SECCNDS
DAY		DAYS
HR		HOURS
MIN		MINUTES
TOTAL ELONGATION		
PC TIN40		PERCENT IN 40
TOUGHNESS		
MJ/M <sup>3</sup>		MEGAJCOLES FER CUBIC METRE
VELOCITY		
KM/SEC	SI	KILCMETRES FER SECOND
M/SEC	SI	METRES PER SECCND
FT/SEC		FEET PER SECCND
KM/HR		KILCMETRES FER HOUR
MILE/HR		MILES FER HOUR
VISCOSITY		
N-SEC/M <sup>2</sup>	SI	NEWTON SECCNDS PER METRE SQUARED
PA-SEC	SI	PASCAL SECCNDS
UPA-SEC	SI	MICROPASCAL SECCNDS

TABLE 12 - UNITS NAMES BY PROPERTY (08/16/78) PAGE 7

CPOISE		CENTIPCISE
LBM/HRFT		POUND MASS FER HOUR-FOOT
UPOISE		MICROPCISE
VOLUME		
M <sup>3</sup>	SI	METRES CUBED
CM <sup>3</sup>		CENTIMETRES CUBED
FT <sup>3</sup>		FEET CUBED
GALLON		LIQUID GALLON
IN <sup>3</sup>		INCHES CUBED
KM <sup>3</sup>		KILCMETRES CUBED
LITER		LITERS
MM <sup>3</sup>		MILLIMETRES CUBED
UM <sup>3</sup>		MICROMETRES CUBED
YD <sup>3</sup>		YARDS CUBED

TABLE 13 - UNIT NAMES (08/16/78)

PAGE 1

CAL/MOL	SI	CALORIES PER MOLE
G/M <sup>2</sup>	SI	GRAMS PER METRE SQUARED
G/M <sup>2</sup> /HR	SI	GRAMS PER METRE SQUARED PER HOUR
GPA	SI	GIGA PASCALS
J	SI	JOULES
J/KG-K	SI	JOULES PER KILOGRAM-KELVIN
J/MOL	SI	JOULES PER MOLE
J/M <sup>3</sup>	SI	JOULE PER METRE CUBED
K	SI	KELVIN
KCAL/MOL	SI	KILCALORIES PER MOLE
KG	SI	KILOGRAMS
KG/M <sup>3</sup>	SI	KILOGRAM PER METRE CUBED
KJ/KG-K	SI	KILOJOULES PER KILOGRAM-KELVIN
KM	SI	KILOMETRES
KM/SEC	SI	KILOMETRES PER SECOND
M	SI	METRES
M/SEC	SI	METRES PER SECOND
MEGAN/M <sup>2</sup>	SI	MEGANEWTONS PER METRE SQUARED
MEGGM/M <sup>3</sup>	SI	MEGAGRAM PER METRE CUBED
MGM <sup>2</sup> HRS	SI	MILLIGRAMS/CM SQUARED/SQUARE FOOT OF HOURS
MICRON	SI	MICRONS
MICROS/C	SI	MICRONS PER DEGREE CENTIGRADE
MIN <sup>2</sup> /2	SI	SQUARE FOOT OF MINUTES
MM	SI	MILLIMETRES
MM/M	SI	MILLIMETRES/METRE
MM <sup>2</sup> /SEC	SI	MILLIMETRES SQUARED PER SECOND

TABLE 13 - UNIT NAMES (08/16/70)

PAGE 2

MM/M	SI	MILLIMETERS PER METRE
MPA	SI	MEGAPASCAL
M <sup>2</sup>	SI	METRES SQUARED
M <sup>2</sup> /SEC	SI	METRE SQUARED PER SECOND
M <sup>3</sup>	SI	METRES CUBED
M <sup>3</sup> /KG	SI	METRES CUBED PER KILOGRAM
N-SEC/M <sup>2</sup>	SI	NEWTON SECONDS PER METRE SQUARED
N/M	SI	NEWTONS PER METRE
PA	SI	PASCALS OR NEWTONS PER METRE SQUARED
PA-SEC	SI	PASCAL SECONDS
PCT	SI	PERCENT
PCT2DIAM	SI	PCT CHANGE IN DIAMETER
PCT3INMM	SI	PCT IN 50.8 MM
PPM	SI	PARTS PER MILLION
SEC	SI	SECONDS
UM	SI	MICROMETRES
UM/YR-PPM	SI	MICROMETRES PER YEAR PER PPM OXYGEN
UM <sup>2</sup> /SEC	SI	MICROMETRES SQUARED PER SECOND
UMM-M	SI	MICROMETER METRES
UMPA-SEC	SI	MICROPASCAL SECONDS
W/M-K	SI	WATTS PER METRE-KELVIN
1/GPA	SI	PER GIGAPASCAL
1/PA	SI	PER PASCAL
AMU		ATOMIC MASS UNITS
ANGSTROM		ANGSTROMS
ATM		ATMOSPHERES

TABLE 13 - UNIT NAMES (08/16/78)

PAGE 3

BARN	BARN
BEV	BILLION ELECTRON VOLTS
BTU	BRITISH THERMAL UNIT (THERMOCHEMICAL)
BTU/HFTF	BTU PER HOUR-FOOT-DEGREE F
BTU/HFTR	BTU PER HOUR-FOOT-DEGREE R
BTU/LB-F	BTU PER POUND DEGREE FAHRENHEIT
C	CENTIGRADE
C/MOL-K	CALORIES PER MOLE-KELVIN
CAL	CALORIES (THERMOCHEMICAL)
CAL/MOL	CALORIES/MOLE
CM	CENTIMETRES
CM2	CENTIMETRE SQUARED
CM2/SEC	CENTIMETRE SQUARED PER SECOND
CM3	CENTIMETRES CUBED
CPOISE	CENTIPOISE
DAY	DAYS
DELTA MU	DELTA MU
ERG	ERGS
EV	ELECTRON VOLTS
F	FAHRENHEIT
FT	FEET
FT-LB	FOOT POUNDS
FT/SEC	FEET PER SECOND
FTLB/FT3	FOOT-POUND PER FEET CUBED
FT2	FEET SQUARED
FT3	FEET CUBED

TABLE 13 - UNIT NAMES (08/16/78)

PAGE 4

FT <sup>3</sup> /LBM	FEET CUBED PER POUND-MASS
G	GRAMS
G/CM <sup>3</sup>	GRAMS PER CUBIC CENTIMETRE
GALLON	LIQUID GALLON
HR	HOURS
IN	INCHES
IN <sup>3</sup>	INCHES CUBED
J/KG	JOULES PER KILOGRAM
J/MOL	JOULES PER MOLE
J/MOL-K	JOULES PER MOLE-KELVIN
KCAL	KILOCALORIE (THERMOCHEMICAL)
KJ/KG	KILOJOULES PER KILOGRAM
KJ/MOL	KILOJOULES PER MOLE
KM/HR	KILOMETRES PER HOUR
KM <sup>2</sup>	KILOMETRE SQUARED
KM <sup>3</sup>	KILOMETRES CUBED
KW-HR	KILOWATT HOURS
LB/IN <sup>3</sup>	POUNDS PER CUBIC INCH
LBM/HRT	POUND MASS PER HOUR-FOOT
LITER	LITERS
MEGAG/M <sup>3</sup>	MEGAGRAN PER CUBIC METRE
MEV	MILLION ELECTRON VOLTS
MG	MILLIGRAM
MILE	MILES
MILE/HR	MILES PER HOUR
MILE <sup>2</sup>	MILE SQUARED

TABLE 13 - UNIT NAMES (08/16/78)

PAGE 5

MIN	MINUTES
MJ/M3	MEGAJouLES PER CUBIC METRE
MM2	MILLIMETRES SQUARED
MM3	MILLIMETRES CUBED
MPA2	MEGAFASCALS SQUARED
MWD/MTM	MEGAWATT DAYS PER METRIC TON
N/CM2	NEUTRON PER SQUARE CENTIMETRE
NANOHM-M	NANOHM PER METRE
NONE	NONE--VARIABLE HAS NO UNITS
PCTIN2IN	PCT IN 2 INCHES
PCTIN4D	PERCENT IN 4D
PCTIINCM	PCT IN 5.08 CM
PSI	POUNDS PER SQUARE INCH
R	RANKINE
SEC	SECOND
TORR	TORR (0 DEG. C)
UG	MICROGRAM
UM3	MICROMETRES CUBED
UMH-IN	MICROMH INCHES
UMH/CM	MICROMH PER CENTIMETRE
UPOISE	MICROPOISE
VOLFRAC	VOLUME FRACTION
W/CM-K	WATTS PER CENTIMETRE-KELVIN
YD	YARDS
YD2	YARD SQUARED
YD3	YARDS CUBED

TABLE 13 - UNIT NAMES (08/16/78)

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I/K	PER KELVIN
1E-6/K	1.E-6 PER KELVIN

TABLE 14 - MATERIAL NAMES (08/16/78)

PAGE 1

AEROSOL	- AEROSOL
AIR	- AIR
AIR/AR	- AIR-ARGON
AL-5061	- ALUMINUM ALLOY 6061
AR	- ARGON
A286	- STEEL A-286
A600	- ALLOY 600
B4C	- BORON CARBIDE
CR-C	- CHROMIUM CARBIDE
CR308	- CR308 WELD
HE	- HELIUM
IN750	- INCONEL ALLOY X-750
I600	- INCONEL 600
I718	- INCONEL 718
I718AL	- ALUMINIZED INCONEL 718
KR	- KRYPTON
MCS	- MEDIUM CARBON STEEL
N	- NITROGEN
NA	- SODIUM
NA-CON	- SODIUM CONCRETE
NAK	- SODIUM-POTASSIUM
O	- OXYGEN
S-CR	- STEEL: 2.25CR - 1MO
SS304	- STAINLESS STEEL 304
SS316	- STAINLESS STEEL 316
SS316/20	- STAINLESS STEEL 316 - 20% CW



TABLE 14 - MATERIAL NAMES (09/16/78)

PAGE 2

SS321	- STAINLESS STEEL 321
TH	- THORIUM
THC	- THORIUM CARBIDE
THC2	- THORIUM DICARBIDE
THO2	- THORIUM OXIDE, THORIA
THU	- THORIUM-URANIUM
THUC	- THORIUM-URANIUM CARBIDE
THUC2	- THORIUM-URANIUM DICARBIDE
THUO2	- THORIUM-URANIUM OXIDE
TR18700	- TRIBALCOY 700
U	- URANIUM
UC	- URANIUM CARBIDE
UC2	- URANIUM DICARBIDE
UO2	- URANIUM OXIDE, URANIA
UPUC	- URANIUM-PLUTONIUM CARBIDE
UPUO2	- URANIUM-PLUTONIUM OXIDE
XE	- XENON
16-E-2WM	- 16-E-2 WELD METAL
308/308L	- 308/308L WELD METAL

TABLE 15 - VERSION NAMES (08/16/78)

PAGE 1

GA	- GENERAL ATOMIC
NSMH	- NUCLEAR SYSTEMS MATERIALS HANDBOOK
PLSA	- PROPERTIES FOR LMFBR SAFETY ANALYSIS
RSD-77-1	- ANL-CEN-RSD-77-1
C	- TRIAL VERSION
1	- FIRST GENERAL SACRO RELEASE, SPRING 1978

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