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8-1958

Fabrics : Buying, Sewing, Laundering

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Recommended Citation

Marjorie S., Lusk and Pattison, Arlean, "Fabrics : Buying, Sewing, Laundering" (1958). *SDSU Extension Circulars*. 966. https://openprairie.sdstate.edu/extension_circ/966

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Extension Circular 560 August 1958

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FABRIC

Buying Sewing Laundering

630,732, So 87,17 No. 560 South Dakota State College U. S. DEPARTMENT OF AGRICULTURE

FABRICS Buying, Sewing, Laundering.

W ITH A widening world of new fibers, fabrics and finishes, we need facts to help us buy, use, sew and care for family clothing. It is difficult and confusing to tell by look or feel just what fibers are in today's fabrics. We may know certain tests, but our best guide is reliable label information to tell us how to use and care for a garment. We learn special qualities about fibers, but when they are made into fabric, then dyed, finished, or made into garments, their behavior may be very different.

Through the ages, natural fibers have had certain shortcomings. Their quantity and quality could be affected by drought or floods, or by diseases in flocks of sheep, in silkworm cultivations, and in fields of cotton or flax. Although quality of fibers depends on length and fineness, little could be done about their natural size, strength and weight. Now, man-made fibers can be controlled with scientific precision, but they, too, have limitations. None are perfect or "miracles." It is necessary to test each fabric construction to find if it is suited for a specific end-use.

Man-made fibers may be regenerated from a cellulose (vegetable) base such as cotton linters or wood pulp to make a fiber like Rayon or from a protein base such as corn to make a fiber like Vicara. Or they may be made from a combination of chemicals such as coal, air and water to make a fiber like Nylon. Many of the 20 or more man-made fibers today have a proved value, others are, still experimental. Several have qualities in common. Blends in a fabric are a mixture of two or more fibers, either natural or man-made. Well over a million blends are possible. For a special use they need to combine desirable fiber qualities or eliminate the undesirable. In a *true* blend, fibers are mixed and spun into single yarns. In a *combination* blend, yarns of different fibers are woven into a single piece of fabric. Lengthwise yarns may be one fiber, crosswise yarns another. Caring for garments is lighter work than in grandmother's day, but we have to know more about the varied fabrics, laundry supplies and

we have to know more about a equipment available.

When you fold back this flap you will find a reference chart giving you a few pointers about fibers, fabric finishes, uses, sewing tips, and care of today's clothing fabrics.



Labels Help You

We are all consumers. Haphazard buying wastes hard-earned money, but wise buying gives us more for our dollars. If wise, we know our family clothing needs, how much money we have to spend, the price of each item, and its quality compared to another.

Most clothing items have a brand or trade name which is a standard, but not a guarantee of quality. A brand name makes it convenient to find the same item again. Informative labels describe the quality of a fabric, garment or both. A guaranteed washable fabric, for example, may be made into a garment with an unwashable trim.

We judge a label's helpfulness if it-

- Defines fiber content and fabric finish.
- Describes qualities in order of importance.
- Gives information on use and care.
- Describes hidden values and qualities.
- Is stated in terms we can understand.
- Gives direct, honest and complete facts.
- Has name and address of manufacturer.
- Is in a form we can save for future use.

If we want good labels on the clothing we buy, we should buy from the stores selling well-labeled merchandise. Labeling adds to cost but our satisfaction is worth it. Ask for, read and use labels.

Then, keep up-to-date about labeling legislation. Fiber identification gives information but no

Fiber identification gives information, but no guarantee of fabric performance. The Wool Labeling act requires manufacturers to state the amount of wool in a fabric, and whether it is new or re-used. Present labeling requirements cover one-fourth of the textile fiber trade. The Federal Trade commission also has accepted Trade Practice rules requiring fiber labeling on Rayon, Acetate, silk, and linen fabrics and garments. Other rules define acceptable preshrinking and flammability processes, and the metallic weighting of silk. These are steps toward other helpful rules about fiber content labeling. Brand Mame DRESS of RAYON ACETATE 60% RAYON 40% ACETATE 60% RAYON 40% ACETATE for strength and for beauty and absorbency. ease of care. COLORS RESIST: light, gas tomes, washing, cleaning, FINISH RESISTS: wrinkles, stains, shrinking. TO CARE FOR THIS GARMENT: Dry clean or wash with mild sods in warm water. Press on wrong side

Warm Water. Press on wrong side using a damp cloth and Rayon setting. Brand Name DRESS CORP. 7th STREET. New YORK

If the Label About Care Says-

"Wash and Wear"—the garment can be laundered and worn with little or no ironing. Wash those with resin finishes in warm water (not above 120°F.), mild soap or detergents, and pretreat oily soil.

These garments may wrinkle less if they are carefully dryer-dried than if drip-dried on hangers —the exception, "durable pleating" which should be drip-dried.

"Hand wash" indicates careful laundering. For very delicate garments or single pieces requiring

We should tell buyers in stores and drycleaners about the success or failure of purchases. They will relay comments to the manufacturer. Eventually, keen competition in the art and science of engineering new fabrics will produce even better ones than we have today. a different treatment, true hand washing in a bowl may be practical. Avoid too much detergent or soap, knuckle rubbing and hard wringing. It is possible, by proper management of washer and dryer, to get equally careful handling (see back page).

"Washable" indicates moderate colorfastness or sensitive finishes. Wash in warm (120°F.) water, with soap or detergent at home or at commercial laundry. It is best not to bleach.

"Completely washable" or "Washfast" may be washed at laundry or in home washer in hot water (160°F.) with soap or detergent and bleaching agent.

FABRIC REFERENCE CHART

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			-	feelest	
0 0	COTTON	LINEN	SILK	WOOL	RAYON, NYLON,
	Characteristics Inexpensive vegetable fiber. Absorbent, soft, smooth, dura- ble, light weight, strong (espe- cially when wet). Mildews. Re- tains whiteness. Good scorch resistance. Stands high wash- ing and ironing temperatures. Blends with all fiBers — con- tributes comfort, washability, absorbency, smoothness.	Characteristics High - priced vegetable fiber. Mostly imported. Durable, ab- sorbent, lustrous, crisp, very strong. Mildews. Pliable, drapes well. Does not soil read- ily, creases unless finished, relatively inelastic. Stands high washing and ironing tem- peratures. Blends with cotton, silk, rayon, wool, some man- mades—contributes absorben- cy, texture, strength.	Characteristics Luxury animal fiber. Long, fine, lustrous, durable, strong, springy. Drapes softly. Resists wrinkles. Good absorption, elasticity. Dyes well. Easily heat damaged. Blends with wool, cotton, most man-mades —contributes luster, strength and "hand." Includes cultivat- ed, wild, Douppioni (double co- coons), waste (damaged co- coons).	Characteristics Costly, animal fiber (sheep, goat, camel, cashmere, etc.). Soft, warm, resilient. Sheds wrinkles. Medium strength but durable. Good insulation, ab- sorption. Flame resistant. Holds odors. Shrinks. Soft fabrics "pill." Blends with cotton, silk, linen, most man-mades—con- tributes warmth, resilience, comfort.	Characteristics No one fiber or fabric has even in common—Sturdy, resist we Absorb little moisture. Dry que Light weight. Resist wrinkling damaged. Tend to "pill" (sue unless blended or treated. They also have differences of Fortisan, a Super-strong rayo to dye, but absorb water-solu Dynel, Verel, Orlon, Creslan rapidly, resist water-soluble st
	Fabric Finishes Possible Mercerizing adds luster, strength, absorbency, ease of dyeing. Can be bleached, glazed, embossed, napped, shrinkage controlled. Resin finishes add permanent crisp- ness and resistance to creases, mildew, flame, stains and wat- er.	Fabric Finishes Possible Can be bleached, beetled (pounded to give leathery, flat surface for table damask), and dyed color-fast. Wide variety fabric weights and textures. Resin finishes add permanent crispness and resistance to stains, water, creases and mil- dew.	Fabric Finishes Possible Gum sizing used for stiffness for sheers (replace when dry- cleaned). Avoid metallic- weighted fabrics. Ask for "pure" silks. Finishes add du- rability and resistance to stains, spots, perspiration, creases and yellowing.	Fabric Finishes Possible Worsteds: smooth, distinct weave. Woolens: soft, indis- tinct weave. Can be fulled (makes fabric compact), felt- ed, napped or sheared. Dyes fast colors. Finish can give water, mildew and moth resis- tance, washability and shrink- age control.	Fabric Finishes Possible Both yarns and fabrics may uneven silk yarn. A bulked resembles wool and remains non-shrinking fibers that pro with permanent crimping, tw one layer of metal foil betw plating. Mylar film is the st A metallic-coated finish suc
	Uses For sewing thread. All types of fabric—sturdy, heavy-duty for work clothes; firm and medium-weight for work and play; delicate for sheerest use. "Winter" cottons resemble wools without their warmth.	Uses For sewing thread. Fabrics for outer garments from sheerest to very coarse. Handkerchief linen for sheer blouses and lin- gerie. Heavier fabrics for men's suits and women's coats. Novelty fabrics — tweeds, and for shoes, hats and handbags.	Uses For sewing thread. Fabrics for all types clothing. Cultivated for fine lingerie and dresses; Wild for heavier, linen types; Douppioni for nubby Shan- tungs; Waste for crashes, rough textures. Also fabrics for shoes, ribbons, trimmings and umbrellas.	Uses Fabric for all types of clothing from delicate, sheerest wools to thick, heavy, fleeced winter coatings. Especially important for baby clothes, knitted and swim wear. Felt and velour im- portant for house shoes, hats and purses.	Uses Man-made fibers, depending clothing, from the sheerest o thread and supplies, uniform to look like cotton and linen can be made to resemble cas fur. Stiffened nylon sheers, r Of the man-made fibers, only
	Sewing Tips Shrink fabric if not treated. Use 6-ply or mercerized thread, washable interfacing and colorfast trim. Avoid fab- rics printed or pressed off grain. Straighten before cut- ting. Select right size needle and thread for fabric weight.	Sewing Tips Shrink fabric if not treated. Pull thread to straighten cut ends because strength of linen makes it difficult to tear. Use mercerized thread. Select right size needle and thread for fab- ric weight. Fabric often ravels, so finish seams adequately.	Sewing Tips Cut with sharp shears. Use sharp, fine needles and pins. Place pins in seam allowance to avoid pin holes. Use silk or mercerized thread. Loosen machine tensions for some weaves. Sew over tissue paper for sheer or slick fabrics.	Sewing Tips Shrink wools and blends unless labeled pre-shrunk. Consider "London Shrunk" method. Stitch with mercerized, silk or heavy-duty thread according to fabric. Easy to shape with steam and pressing. Avoid scorching. For jersey, use fine needle, short stitch, and Da- cron or silk thread for stitch- ing.	Sewing Tips Sewing man-made fabrics i Pre-shrink fabric. Use well- and needles, for both machi points. These fibers are toug Use clay chalk for pattern m Use thread and sewing suppl thread to avoid "pulled" seat Test stitching on double thic threads are similar. For Nylo
	Care Untreated Cottons: Machine- washable in hot water and all- purpose detergent or soap if fast color. Very hot for soiled whites, 140°-160°, colors, 130°-140°. Rinse in soft wat- er. Can be dryer dried. "Hand wash" delicate garments. Dampen well, iron with hot iron. May be bleached. Resin-finished: Wash at mod- erate temperature in mild de- tergent or soap. If bleaching, use only perborate type, ex- cept if labeled "May Be Bleached."	Care Machine or hand wash accord- ing to fabric strength and construction. Use hot water, all-purpose detergent or soap for whites. Dry partially or completely. Dampen well. Iron with hot iron on wrong side for dull finish. Untreated fabric can be bleached and starched. Use only perborate bleaches on resin-finished lin- en unless labeled "May Be Bleached." Dampen and press with hot iron for between- washings care.	Care Protect from perspiration. Dry- clean unless labeled washable. Lingerie is always hand wash- able. "Hand wash" in warm water and mild soap or deter- gent, squeeze suds through fabric, don't rub. Do not bleach. Roll in towel. Hang till damp-dry. Fold to distribute moisture while double parts are wet. Press on wrong side with moderate heat.	Care Dry clean unless labeled wash- able. Air and brush often. Pro- tect from perspiration, moths, heat. "Hand wash" knits in warm water and mild soap or advergent. Gently squeeze, do not wring or rub. Absorb mois- ture in towel. Lay flat to finish drying. Launder "washable wools" in washer with warm wa- ter, mild suds, little agitation. May soak, then spin. Dry with minimum agitation. Steam press on wrong side or with cloth on right side.	Care Dry clean or wash often to p becoming difficult to remove or color to retain their whiten Launder blended fabrics as it and wool as if it were all woo Generally machine or "hand Separate white garments fro mild detergent or soap or ac Gentle washing done more of Avoid using chlorine bleache improved resin finishes, labe Some man-made fibers and to (See characteristics.) Spinning

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Laundering Today's Fabrics

Remove stains while fresh and always before the garment is washed (keep a reliable reference handy). Hot water and soaps set some stains permanently. Pretreat heavily soiled parts with detergent solution.

Oily stains on Dacron, Nylon, Acetates and resin-treated cottons and linens should be pretreated with solvent because these stains become permanently set when washed.

Machine Washing: Proper management of washer controls, water, choice of laundry supplies, and of timing can give good results with any washer. Machines with greater choice in water temperature, amount of agitation, length of wash and rinse, or spin speed may be more convenient.

The "blanket technique" of soaking, brief agitation and spinning may be used for garments that would be harmed by agitation. Do not wring or spin fabrics that wrinkle-set when wet and warm.

Dryer drying for regular laundry loads:

- For faster drying remove as much water as possible in washer, except for fabric finishes which become wrinkle set.
- Don't overload the dryer—this slows drying time and adds to agitation.
- Practice accurate timing overdrying may cause shrinkage, harshness and wrinkles.

Dryer drying for careful handling:

- Dry a few pieces at a time with dry towels as buffers and absorbers.
- Tumble until nearly dry—usually a very short period. Use a bell timer to remind you to be there when dryer stops.
- Remove immediately and put on hanger.
- Smooth collars, facings, etc. into place. Gently stretch puckered seams.

Although proper washing and thorough rinsing give satisfactory laundering results, some laundry aid products are helpful. None of them are curealls for poor laundry practices. Most of them work well to solve specific problems. The danger and unnecessary expense comes from their misuse.

Water Conditioners or Softeners of the nonprecipitating type are a very effective aid to good laundering. Add to wash with either soap or detergent (amount varies with hardness of water) and to rinse for thorough rinsing. Use for removal of built-up soil and detergent.

Rule of Thumb for Handling Fabrics Avoid prolonged agitation, either in washing or drying, on wool, silk, manmades, resin - treated cottons and blends. Avoid excessive heat, on man-mades (es-

- pecially Dynel, Acetate), wool, and resin-finished fabrics.
- Treat blends and combinations of fibers according to recommendations for the most delicate fiber in the combination.

Starches or Sizing Aids give a crisper new look to regular fabrics or to finishes lost after several launderings. Vegetable starches are applied with each washing—buy prepared for convenience or make your own for economy. Plastic starches have a varying permanency and must be applied with caution—may require low heat ironing (overdosage may be removed with rubbing alcohol).

Bleaches are available in several forms.

Chlorine type bleach should be used cautiously —never on silk, wool, acetates or resin-treated fabric since it causes yellowing and fabric splitting. New finishes being developed will be tolerant to chlorine. Dry chlorine type bleach is safer, more convenient and more expensive than the liquid type.

Powdered perborate type bleaches are mildmay be used on resin-treated fabrics but become effective only at high temperatures.

Fabric softeners or "laundry rinses" may prove helpful for lending a softer feel to cottons, especially napped fabrics, and as a static electricity remover for man-made fabrics. Repeated overdosages may build up water repellency. Must be used after thorough rinsing.

This bulletin was prepared by Marjorie S. Lusk, Clothing Extension Specialist, and Arlean Pattison, Extension Home Management Specialist, State College of Washington; and reviewed by Extension specialists of the University of Idaho and Oregon State College.

ACKNOWLEDGEMENT

The South Dakota Extension Service wish to express its thanks to the Extension Services of Washington, Oregon and Idaho for granting permission to reprint PNW Bulletin 20 for use in South Dakota.

EXTENSION SERVICE, SOUTH DAKOTA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS, BROOKINGS, SOUTH DAKOTA Published and distributed under Acts of Congress, May 8 and June 30, 1914, by the Agricultural Extension Service of the

Published and distributed under Acts of Congress, May 8 and June 30, 1914, by the Agricultural Extension Service of the South Dakota State College of Agriculture and Mechanic Arts, Brookings, W. E. Dittmer, Acting Director, U. S. Department of Agriculture cooperating.