

Studies of the Quality, Relaxation and Wear Resisting Properties of Vanadium High Grade Cast Iron

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journal or publication title	Science reports of the Research Institutes, Tohoku University. Ser. A, Physics, chemistry and metallurgy
volume	17/18
page range	348-348
year	1965
URL	http://hdl.handle.net/10097/27267

ABSTRACTS OF PAPERS
Published in Other Journals

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Abstract

We studied Relative Härte, Reife Grad and stress released heat treatment and wear resisting property of vanadium high grade cast iron, and found that these are superior to those of plain high grade cast iron. On the stress released heat treatment at 500~600°C, for 6 hours, vanadium cast iron keeps of better mechanical properties compared to those of plain cast iron.

Vanadium cast iron is more resist to abnormal abrasion causion caused by increase of friction velocity.

* The **1222nd** report of the Research Institute for Iron, Steel and Other Metals. Published in the Journal of the Japan Foundrymen's Society, **37** (1965), 915.