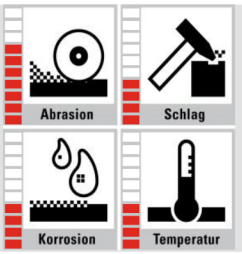
VAUTID W7

High-alloyed and highly wear-resistant Cr chilled cast iron

VAUTID material profile



Specification	VAUTID TSG-W7
Material type **Alloy components**	White cast iron in VAUTID specific composition; main components: Fe, Cr, Mn, Si, C Hypoeutectic cast structure of primary austenite and chrome-carbide-eutectic (Cr7C3 + austenite). Heat treatment transforms the austenite into martensite with secondary carbide precipitations
Characteristics	Highly abrasion resistant, suitable for moderate impact loads. Can be machined after annealing treatment , but not in hardened condition. Not weldable or malleable
Properties	Hardness: approx. 58 - 64 HRC*
Recommended applications	Particularly suitable for components up to approx. 30mm, e.g. hammers, friction discs, rotors and extruders. Cannot be used for self-supporting structures. Can be used up to approx. 400° C
*	When using wear-resistant alloyed cast iron, tensile strength and other mechanical properties only have limited significance and cannot, e.g., be applied for calculations / simulations. The guideline values are therefore not usually verified

*Measured values are subject to standard industry fluctuations

Mechanical properties:*

Bending strength **Mpa**	1350
Tensile strength **Mpa**	370
Hardness **HRC**	approx. 58 - 64

This data sheet complies with the current manufacturing techniques (October 2016) and may be altered without advance notification.

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