**VAUTID W7**
High-alloyed and highly wear-resistant Cr chilled cast iron

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### Specification

<table>
<thead>
<tr>
<th>Material type</th>
<th>VAUTID TSG-W7</th>
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</thead>
</table>

### Material type

**Alloy components**
White cast iron in VAUTID specific composition; main components: Fe, Cr, Ni, 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

### Mechanical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bending strength</td>
<td>1350 Mpa</td>
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<tr>
<td>Tensile strength</td>
<td>370 Mpa</td>
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<tr>
<td>Hardness HRC</td>
<td>approx. 58 - 64</td>
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</tbody>
</table>

*Measured values are subject to standard industry fluctuations

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