sij | ravne steel

COLD WORK TOOL STEEL

QUALITY

RS 201

→ W.NR.:	1.2080 (EN ISO 4957)
→ EN / DIN:	X210Cr12
→ AISI:	~ D3

→ CHEMICAL COMPOSITION (W%)

C	Si	Mn	Cr
2.05	0.25	0.30	11.50

→ DELIVERY CONDITION:	soft annealed with a hardness of <248 HB
→ PROCESS:	conventional

→ HEAT TREATMENT

soft annealing	cooling	hardness (HB)
800-840	furnace	<248
hardening	**quenching**	**hardness (HRC)**
940-980 °C (oil), 960-1000 °C (air)	air, oil, warm bath 400 °C	63-66

→ PROPERTIES

This is a high-carbon ledeburite steel with a medium hardening toughness in oil. It is highly wear-resistant and has a medium tempering resistance. This steel does not have a secondary tempering peak. Dimensionally stable after heat treatment and with high compressive strength. PVD and nitrite can be applied, although this is not recommended. Erosion is not recommended. This steel is vulnerable to rapid warming in heat treatment.

→ APPLICATION

Tool steel for cold applications. It is used for cutting and forming tools for thin but harder metal sheet (up to 4 mm), for woodworking tools. Tools for drawing, deep drawing, pressing, profile rolling (profiles, tubes). For measuring tools. For the pressing of metal powders and ceramics. Tools for screws production. Tools for the cold extrusion of light metals. Different blades for paper. Working hardness of about 58 to 62 HRC.

→ ULTRASOUND EXAMINATION	EN 10228-3 art.2-4

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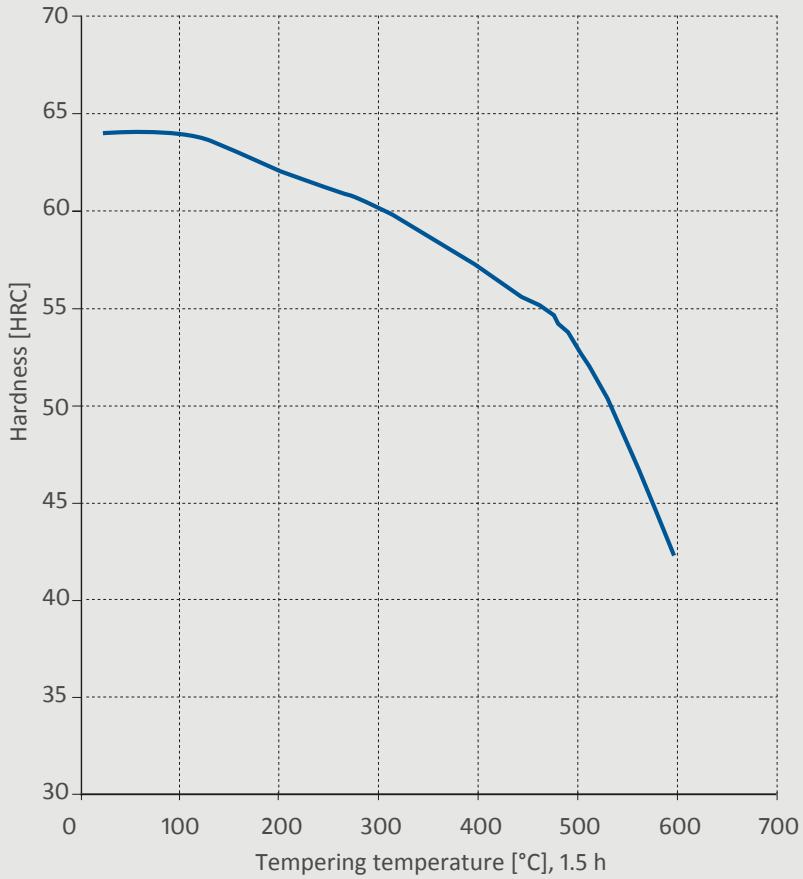

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