

SIDUR 3401 Steel

Designation by Standards

Brand	Brand Name		Mat. No.	DIN	EN	AISI/SAE	
SIDUR	3401	12MN	1.3401	X120Mn12	-	A128 grade A	

Chemical Composition (in weight %)

С	Si	Mn	Cr	Мо	Ni	V	W	Others
1.20	0.40	12.50	max. 1.50	-	-	-	-	-

Description

Austenitic Mn-steel. The well-known Hadfield steel still has broad applications in the mineral processing industry. Especially under impact loading Hadfield steel displays good wear resistance due to its high cold work ability. However, Hadfield steel is not corrosion resistant.

Applications

Components for dredgers and crushers, conveying machines: crushings jaws, impact wedges, linings, etc.

Physical properties (average values) at ambient temperature

Modulus of elasticity [10³ x N/mm²]: 190-210

Density [g/cm³]: 7.88

Hardening

Harden from a temperature of 1000-1050°C followed by water quenching. Hardness after quenching is about 200 HB.

Mechnical properties at ambient temperature:

0.2 % proof stress (N/mm²): 350 Tensile strength (N/mm²): 800-1000

Forging

Hot forming temperature: 1050-850°C

Machinability

The machinability of this steel is poor.

Forms manufactured: Please see the Dimensional Sales Program.

Disclaimer

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