

Technical data sheet – X120Mn12 (1.3401) Hadfield Steel

- Manganese alloyed steel, wear resistant

Applications: hammers, blow bars, anvils, bolts, teeth

Chemical composition

mass fraction in %				
X120Mn12	C [%]	Si [%]	Mn [%]	Cr [%]
	1,10 – 1,30	0,30 – 0,50	12,00 – 13,00	≤ 1,50
	P [%] max.	S [%] max.	Mo [%]	Cu [%]
	0,100	0,040	-	-
	Ni [%]	V [%]		
	-	-		

ISO 9001: 2015 TÜV NORD certified..



Heat treatment

Hardening 1.000 -1.050 °C Water

Mechanical properties

Dimension	Yield Strenght (Re)	Tensile Strenght (Rm)	Elongation (A 5,65)	Constriction (Z)
<= 16 mm	>= 410 MPa	880 - 1.130 MPa	>= 40 %	>= 40 %
17 - 40 mm	>= 390 MPa	830 - 1.080 MPa	>= 42 %	>= 40 %
41 - 100 mm	>= 345 MPa	780 - 1.080 MPa	>= 45 %	>= 45 %

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