

1.3401 X120Mn12

Material Designation

1.3401 DIN
A128 AISI

Standards

SEL 11. edition

Chemical Composition Mass-%

	C	Si	Mn	P	S	Cr
min.	1,10	0,3	12,0	-	-	-
max.	1,30	0,5	13,0	0,01	0,04	1,5

Properties

1.3401 X120Mn12 is an austenitic hard manganese steel. Work hardening of the surface under mechanical stress greatly increases the wear resistance and surface hardnesses of up to 500 HB are achieved, while the core remains tough.

Delivery Condition

✘ Solution annealed (+AT)

Application Area

Components with high mechanical impact and shock loads.

Typical Applications

- ✘ Security technology (safes, bolts)
- ✘ Protective grilles, prison bars
- ✘ Crusher jaws and hammers
- ✘ Baffle plates
- ✘ Blasting systems

Mechanical Properties acc. to SEL 11. edition

Yield strength [N/mm ²]	Tensile strength [N/mm ²]	Elongation [%]
≥ 350	800 - 1000	≥ 40

Heat Treatment Guideline values

	Temperature [°C]	Cooling medium
Solution annealing (+AT)	1000 - 1050	Water

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated phased-array-ultrasonic testing up to dia. 1000 mm
- CO₂-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

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