

Alloyed boilersteel

X10CrMoVNb9-1

DESIGNATIONS

ASTM / ASME plate	A/SA 387 gr.91
ASTM / ASME bar	A/SA 182 F91
ASTM / ASME pipe	A/SA 335 P91
W.stoff no.	1.4903

APPLICATION

Martensitic, high temperature steel. Main fields are for example powerplants, pressure valves and oil-, gas-, chemical industries. Excellent resistance to high working temperatures up to appr. 650°C.

DELIVERY PROGRAMME

LIVALLCO STÅL AB is a stockholder of plates in thickness 6-40 mm.

Our plates are always according to

EN 1.4903/X10CrMoVNB9-1 / ASTM A 387 / ASME SA 387

with ultrasonic-test acc. to both

EN 10160 S2/E3 and ASTM A578 level C.

The material is tempered at 770°C.

CHEMICAL COMPOSITION

Al	min. 0,040
C	0,08 - 0,12
Cr	8,00 - 9,50
Cu	max. 0,30
Mn	0,30 - 0,60
Mo	0,85 - 1,05
N	0,030 - 0,070
Nb	0,06 - 0,10
Ni	max. 0,30
P	max. 0,020
S	max. 0,005

DIMENSION

Plate	6 - 60 mm
Roundbar	Ø 20 - 700 mm
Forging	Yes
Pipe	Yes

MECHANICAL PROPERTIES

Yield	min. 435 N/mm ²
Tensile	580 - 760 N/mm ²
KV	+20°C / 40J

Are only given as typical values for plate in 10 mm thickness.

For more information, please contact LIVALLCO STÅL AB, Sweden

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