

A/SA 320M B8LN CL1

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

A/SA 320M covers alloy steel bolting materials for pressure vessels, valves, flanges and fittings for low- temperature service. The term "bolting material" as used in this specification covers rolled, forged, or strain hardened bars, bolts, screws, studs and stud bolts. The bars shall be hot-wrought. A/SA 320M covered several grades, including both ferritic and austenitic steels designated L7, B8, etc. Selection will depend on design, service conditions, mechanical properties and low-temperature characteristics. A/SA 320M expressed in both inch-pound units and in SI units. The values stated in either inch-pound units or SI units are to be regarded separately as standard.

Chemical Properties

C	Si	Mn	P	S	Cr	Ni	N
0.030 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	18.0-20.0	8.0-10.5	0.10-0.16

Mechanical Properties

Yield strength	Tensile strength	Elong	Reduction	Hardness
Mpa	Mpa	%	%	HRB
min	min	min	min	max.
205	515	30	50	223

Heat Treatment

Carbide Solution Treated.

Equivalent Designation

UNS S30451
EN number
EN Name
W.Nr.
SS
AFNOR



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