

SB 564

HIGH TENSILE

NICKEL ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

SB 564 covers nickel alloy forgings. These alloys are classified into different grades according to their chemical composition. A chemical analysis shall be employed on each alloy in order to determine its chemical composition. Grain size and mechanical properties like tensile strength, yield strength, and elongation shall be measured. A tension test and nondestructive ultrasonic test shall be done on each specimen. SB 564 covers UNS N10624. The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

Chemical Properties

C	Mn	P	S	Si	Cr
0.01 Max	1.0 Max	0.025 Max	0.01 Max	0.10 Max	6.0-10.0

Mo	Cu	Al	Co	Fe
21.0-25.0	0.5 Max	0.5 Max	1.0 Max	5.0-8.0

Mechanical Properties

Yield strength	Tensile strength	Elongation
Mpa	Mpa	%
min	min	min
320	720	40

Heat Treatment

Solution Annealed @ 1080°C & Liquid Quenched

Equivalent Designation

UNS N10624
EN number
EN Name
W.Nr.
SS
AFNOR

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