

MATERIAL GRADE DATA

N

A

SB 564

INCONEL 617

BOLTING M

SB 564 covers nickel alloy forgings. These alloys are classified into different grades according to their chemical composition. Grain size and mechanical properties shall be measured. A tension test and nondestructive ultrasonic test shall be done on each N06617. The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are for information only and are not considered standard.

Chemical Properties

C	Mn	S	Si	Cr	Mo	Ni
0.05-0.15	1.0 Max	0.015 Max	1.0 Max	20.0-24.0	8.0-10.0	44.5 Min

Cu	Ti	Al	B	Co	Fe
0.5 Max	0.6 Max	0.8-1.5	0.006 Max	10.0-15.0	3.0 Max

Mechanical Properties

Yield strength	Tensile strength	Elongation
Mpa	Mpa	%
min	min	min
241	655	35

Heat Treatment

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Solution Annealed @ 1080°C & Liquid Quenched

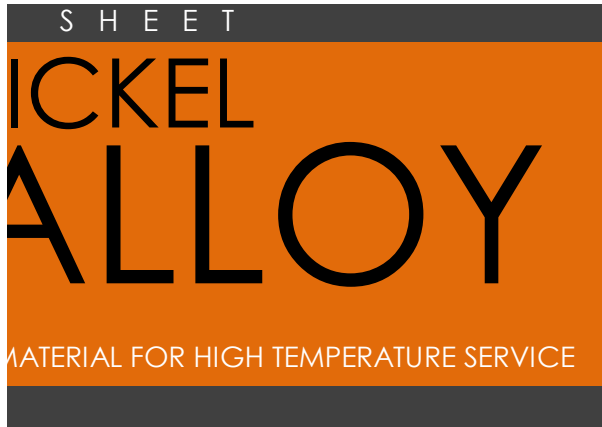
Equivalent Designation

UNS N06617
EN number
EN Name
W.Nr.
SS
AFNOR

TorqBolt Inc

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chemical composition. A chemical analysis shall be performed on the material to determine properties like tensile strength, yield strength, and elongation to failure. SB 564 covers Ni-Cr-Co-Mo alloy UNS N60220. The values in parentheses are mathematical conversions to SI units.



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