

# SB 564

HAYNES HR120

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 alloy. 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	P	S	Si	Cr	Mo
0.02-0.10	1.5 Max	0.040 Max	0.03 Max	1.0 Max	23.0-27.0	2.50 Max

Cu	Ti	N	Al	B	W	Co
0.50 Max	0.20 Max	0.15-0.30	0.40 Max	0.010 Max	2.50 Max	3.0 Max

## Mechanical Properties

Yield strength	Tensile strength	Elongation
Mpa	Mpa	%
min	min	min
276	621	30

## Heat Treatment

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Solution Annealed @ 1080°C & Liquid Quenched

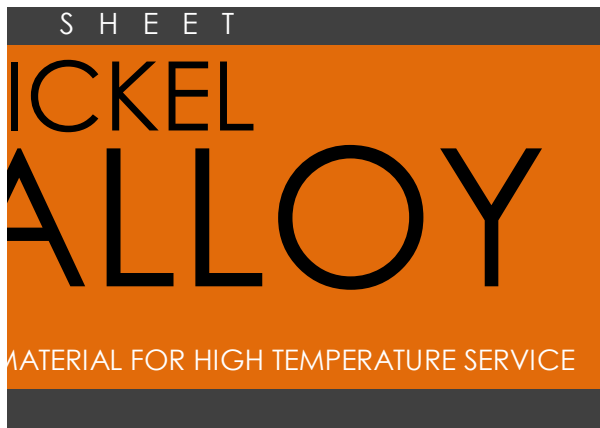
### Equivalent Designation

UNS N08120
EN number NiFe33Cr25Co
EN Name
W.Nr. 2.4854
SS
AFNOR

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Chemical composition. A chemical analysis shall be performed on each lot of material. Properties like tensile strength, yield strength, and elongation shall be determined on each specimen. SB 564 covers Ni-Fe-Cr alloy UNS S30400. The numbers in parentheses are mathematical conversions to SI units

<b>Ni</b>
35.0-39.0

<b>Cb+Ta</b>
0.4-0.9



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