

Nimonic 80a - NICKEL ALLOY 80A

L'alliage 80A (également connu sous le nom commercial de Special Metals Nimonic 80A) est un alliage nickel-chrome similaire à l'alliage 75, mais rendu durcissable par précipitation par des ajouts d'aluminium et de titane. L'alliage 80A présente une bonne résistance à la corrosion et à l'oxydation et une résistance élevée à la traction et au fluage à des températures allant jusqu'à 1500 ° F.

Specific Gravity

8.19 g/cm³

Typical Applications

Bolts
Exhaust valves
Gas turbine components
Tube supports in nuclear steam generators

Related Specifications

BS 3076 (NA20)
BS HR1
BS HR601
ASTM B637
UNS N07080
MSRR 7011
W.Nr 2.4952
W.Nr 2.4631
DIN 17742

Chemical Composition (Wt %)

	Ni	Cr	Fe	C	Mn	Si	S	Ti	Al	Cu	B	Zr	Co
Min	Bal	18	–	–	–	–	–	1.8	1.0	–	–	–	–
Max	–	21	3.0	0.10	1.0	1.0	0.015	2.7	1.8	0.2	0.008	0.15	2.0

Typical Mechanical Properties

0.2% Proof Stress	Tensile Strength	Elongation	Reduction of area	Hardness
MPA	MPA	%	%	HV
Min	Min	Min	Min	Min

620	1000	20	12	300
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* Every effort has been made to ensure that our technical specifications are accurate. However, technical specifications included within Dynamic Metals Ltd should be used as a guideline only and are subject to change without notice.

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