



BRODER METALS GROUP C63000 HR50

Broder Metals Group supply C63000 HR50 material with the intent of meeting the following relevant classes and specifications on the final product: ASTM B150 C63000 HR50, UNS C63000.

Use High Strength fasteners, valves and pump components for industrial process streams, marine environment.

Strengths Excellent corrosion resistance.

Chemical Composition

Chemistry	Min	Max
Al	9	11
Fe	2	4
Ni	4	5.5
Mn	-	1.5
Zn*	-	0.3
Sn*	-	0.2
Si*	-	0.1
Cu	Balance	

Notes: Nickel includes Cobalt

Mechanicals

Temper (high strength rod under load) MPa min	Size	Tensile strength, MPa min	Yield Strength (0.5 [^] extension under load) Mpa min	Elongation 4D% min
50—drawn & stress relieved	25.4mm—50.8mm	620	310	6
HR50—drawn & stress relieved	50.8mm—80mm	585	295	10
MR20/M30—hot rolled/ hot extruded	80mm—100mm	585	295	10
MR20/M30hot rolled/ hot extruded	100mm+	550	275	12
HR50 - drawn & stress relieved	12.7mm—25.4mm	760	470	10
HR50 - drawn & stress relieved	25.4mm—50.8mm	760	470	10
HR50 - drawn & stress relieved	50.8mm—80mm	725	380	10

Tempers of H50 (drawn and stress relieved), M20 (as hot rolled) and M30 (as hot extruded) are all permissible but the temper must be stated on the Certificate of Conformity.

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