

TIG/MIG 517

Nickel based super alloy filler rod / wire for TIG / MIG welding

SPECIFICATIONS

AWS/ASME SFA 5.14M : ER NiCrCoMo-1
 UNS No. : N06617

PROPERTIES

The weld metal has high-temperature strength, exceptional creep & oxidation resistance with metallurgical stability. Superior performance at elevated temperatures as well as chemical corrosion environment.

TECHNICAL DATA

UTS : 62-68 Kgf/mm²
 Elongation : 20-30%



TYPICAL APPLICATIONS

TIG/MIG 517 is used for welding inconel 617, incoloy 800, 800 H, 800 HT, 803, HP 45, other heat-resisting alloys with dissimilar metals for high-temperature service up to 1250°C. Also used on valves, pumps, pipelines, heat exchanger tubes subjected to severe chemical corrosion and temperature environment.

CHEMICAL COMPOSITION (%)

C : 0.05-0.15	Mn : 1.00	Cr : 20.0-24.0	Ni : Bal
Si : 1.0	Co : 10.0-15.0	S : 0.015	Mo : 8.0-10.0
Ti : 0.60	Al : 0.80-1.50	Cu : 0.50	P : 0.03
Fe : 3.0	Other: 0.50		

AVAILABILITY

Standard Size : 1.6, 2.0, 2.5, 3.2 & 4.0 mm dia in 1000 mm length.
 Packing : 1000 mm in 5 kg. for TIG welding.
 Spools : 0.8, 1.0, 1.2 & 1.6 mm dia in 12.5 kg. spool for MIG welding.



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