

AFROX TIG 16.8.2

Afrox TIG 16.8.2 is a solid wire for TIG welding 300H series stainless steel. The consumable has a controlled composition optimised for performance in structural service at temperatures up to 800°C. It is essentially a dilute hybrid between 308H and 316H. Rather than matching any single parent metal, it has applications for welding all the 3XXH series of stainless steels with up to 0.04-0.10% Carbon. Applications include catalytic crackers, cyclones, transfer lines, furnace parts, thick wall steam piping, superheater headers, gas and steam turbine components in the petrochemical, chemical process plants and in power generation industries.

CLASSIFICATION

AWS A5.9 ER16.8.2

CHEMICAL ANALYSIS (typical)

% Carbon	0.060	% Chromium	15.500
% Manganese	1.400	% Molybdenum	1.300
% Silicone	0.400	% Nickel	8.500
% Sulphur	0.010	% Copper	0.100
% Phosphorus	0.020	Ferrite N ^o	1-6

TYPICAL MECHANICAL PROPERTIES

(All weld metal)

	As Welded	650°C	732°C	816°C
2% Proof Stress	450MPa	221MPa	178MPa	147MPa
Tensile Strength	620MPa	315MPa	241MPa	173MPa
Elongation 4d %	35%	31%	36%	42%

PACKING DATA

Diameter (mm)	Electrode Length mm	Amps	Item Number	Pack Mass (Kg)
1.6	1000	100	078516	2.5
2.4	1000	100	078518	2.5



For all enquiries call 0860 020202