

Shield-Bright 316H

Shield-Bright 316H was developed for welding of type 316H stainless steel and can also be used for type 316. It contains a higher carbon level(0.04% min.) than 316L filler metals to give greater high temperature strength. The ferrite content is also lower for high temperature service. Typically these are found in applications where the service temperature is above 750 (400). Shield-Bright 316H was developed for welding in all positions and performs particularly well in the vertical position with excellent slag removal.

Specifications

Classifications	JIS Z3323 : TS316-FB1 AWS A5.22 : E316T1-1(4)
Approvals	JIS

Approvals are based on factory location. Please contact ESAB for more information.

Typical Tensile Properties

Yield Strength	Tensile Strength	Elongation
100% CO₂		
452 MPa (65.5 ksi)	595 MPa (86 ksi)	35 %
75% Ar - 25% CO₂		
460 MPa (67 ksi)	620 MPa (90 ksi)	35 %

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	Ferrite FN
75% Ar - 25% CO₂								
0.055	1.10	0.70	0.006	0.020	12.0	19.0	2.60	3-8
100% CO₂								
0.062	1.51	0.52	0.006	0.020	11.9	18.9	2.60	3-8