



## FW 316

**CODIFICATION:** AWS : SFA 5.9 ER316

### CHARACTERISTICS AND APPLICATIONS:

FW 316 is a solid wire for TIG welding, available in bright finish, gives smooth flow, stable arc and spatter free under optimum welding conditions. It gives radiographic quality weld deposit. The weld metal has excellent resistance to intergranular corrosion even at elevated temperatures. It is ideal for welding stainless steel of similar composition in wrought or cast form and for overlay application to resist heat and corrosion. It is suitable for number of industries like rayon, dye, paper, chemical, fertilizer, petrochemicals, etc.

### TYPICAL CHEMICAL COMPOSITION OF SOLID WIRE:

Element	C	Mn	Si	S	P	Cr	Ni	Mo
%	0.04	1.5	0.50	0.010	0.020	19.0	12.5	2.5

### TYPICAL MECHANICAL PROPERTIES OF ALL WELD METAL:

UTS	Elongation
(Mpa)	(L = 4d) %
540	32.0

**SHIELDING GAS:** Argon

**CURRENT CONDITIONS:** DCEN

**WELDING POSITIONS:** H, F, VU, OH

### PACKING:

**STANDARD SIZE:** Diameter 1.6 mm, 2.0 mm, 2.4 mm & 3.2 mm in cut lengths of 1000 mm each.

**QUANTITY** 5 kgs wire put in an air-tight polythene bag and finally packed in a plastic container.  
Identification – AWS code is punched on each wire.