SUPEROOT 316L

TIG (GTAW)

FLUX CORED TIG WIRE FOR ROOT WELDS WITHOUT BACK PURGE

PRODUCT DESCRIPTION

Flux cored TIG wire Superoot 316L is made with a seamless austenitic stainless steel sheath, which results in a robust moisture resistant wire and rutile flux system. Superoot 316L is designed specifically for situations where it is impractical to apply backpurge for the TIG root run, or to gain the economic benefit of eliminating back-purge. For most applications, the use of a 316L root bead is considered compatible with subsequent filling with 308L, 347 or 316L as appropriate.

Metal recovery is 90% with respect to the whole wire.

CLASSIFICATIONS

AWS A5.22M R316LT1-5 ISO 17633-B TS316L-RI1

ASME IX QUALIFICATION

QW432 F-No 6 QW442 A-No 8

CHEMICAL COMPOSITION (WIRE WT %)										
	С	Mn	Si	S	Р	Cr	Ni	Мо	Cu	FN
Min.		1.0	0.20			18.0	11.0	2.5		3
Max.	0.03	2.0	1.00	0.020	0.030	20.0	14.0	3.0	0.3	10
Typical	0.01	1.4	0.80	0.01	0.015	18.5	12.8	2.6	0.15	6

s welded		Min.	Typical	
Tensile strength (MPa)		510	605	
0.2% proof strength (MPa)		320	465	
Elongation (%)	4d	30	35	
	5d	30	33	
Impact ISO-V(J)	-130°C		> 100	
	-196°C		> 60	
Hardness cap/mid	HV		200/220	

^{*} See data sheet B-38 for as-welded cryogenic applications at -196°C.

TYPICAL OPERATING PARAMETERS			
Shielding gas	Current	Diameter (mm)	Parameters
Argon	DC-	2.2	90A, 12V

PACKAGING DATA

Diameter (mm)	Weight (kg)	Packaging	ltem number	
2.2	5	PE TUBE	SR316L-22	



