

STAINLESS STEEL FILLER METAL

austenitic type

ER 316LSi SGB

DESCRIPTION and APPLICATIONS



Austenitic stainless steel filler metal suitable for welding parent metals like AISI 316, AISI 316L. Equivalent to ER 316L SGB except for higher Si content. This improves the arc stability, the weld metal fluidity and the melt run appearance. If the dilution by the parent metal produces a low ferrite or fully austenitic weld, the hot cracking sensitivity of the weld is higher than that of a lower Si content weld metal. It guaranties better corrosion resistance than ER 308LSi SGB

Chemical composition product analysis % by mass (single value means maximum value if not different stated)



C	Si	Mn	P	S	Cr	Ni	Mo	N	Cu	Nb	W	other
0,03	0,65 1,0	1,4 2,2	0,03	0,02	18,0 20,0	11,0 13,0	2,5 3,0	-	0,3	-	-	0,5

Specifications	Designations
EN ISO 14343-A	19 12 3 L Si
AWS A5.9	ER316LSi

Expected Minimum mechanical properties of all weld metal *	Typical Results
Proof strenght Rp0,2 [Mpa]	320
Tensile strenght Rm [Mpa]	510
Elongation [%]	25
Impact strength KV at -196°C [J]	50
(*) : Room temperature if not different stated	

Approvals		
MIG	X	X
TIG	X	

WELDING FILLER METAL SPECIFIC TO	AVAILABLE DIAMETERS [mm]							
	0,8	1,0	1,2	1,6	2,0	2,4	3,2	4,0
MIG, PLASMA, PLASMA MIG, LASER								
TIG								

PACKAGING TYPE	WIRE RANGE DIAMETERS [mm]	INNER PACKAGING DIAMETER [mm]	OUTER PACKAGING DIAMETER [mm]	NUMBER OF PIECES PER PACKAGING	WEIGHT [kg]	WINDING TYPE	
							
	RODS	1,0÷4,0 (lenght 1 m)	-	-	-	5	-