

TECHNICAL DATASHEET - WELDING CONSUMABLE

AWS Code:	-
Product Code:	RW 316L
Werkstoff No.:	1.4430
MIG Certification:	CE - CWB
TIG Certification:	TUV (1,6-4,0 mm) - CE - CWB

EQUIVALENT OF OTHER STANDARD

EN ISO 14343-A:2017 Nominal Composition	AWS A5.9:2017 Alloy Designation	EN ISO 14343-B:2017 Alloy Type	AWS A5.9:2017 Composition Designation
19 12 3 L	-	-	-

DESCRIPTION AND APPLICATIONS

RW 316L / RW 316LAWS / RW 316LSI / RW 316H is a welding wire class for AISI 316/316L and similar Mo-alloyed stainless steels, targeting higher corrosion resistance than the 308L group. RW 316L and RW 316LAWS reduce chromium carbide precipitation risk and can also be used on Ti/Nb-bearing stainless steels. RW 316LSI improves arc stability, fluidity, penetration and bead appearance through higher Si. RW 316H is the higher-carbon option for high-temperature and creep-strength requirements.

EXPECTED MINIMUM MECHANICAL PROPERTIES AS WELDED

	MIG	TIG	SAW
Rp0,2 [MPa]	450	450	-
Rp1 [MPa]	490	505	-
Rm [MPa]	630	620	-
A [%]	32	35	-
Z [%]	64	-	-
Impact Energy, ISO-V 20°C	152	222	-
Impact Energy, ISO-V -20°C	-	-	-
Impact Energy, ISO-V -60°C	-	-	-
Impact Energy, ISO-V -110°C	110	159	-
Impact Energy, ISO-V -120°C	-	-	-
Impact Energy, ISO-V -196°C	53	50	-

DIAMETER

MIG sizes	0,8 0,9 1,0 1,14 1,2 1,6
TIG sizes	0,8 0,9 1,0 1,2 1,6 2,0 2,4 3,2 4,0
SAW sizes	1,6 2,0 2,4 3,2 4,0

TYPICAL CHEMICAL COMPOSITION (%)

	Min.	Max.
C	-	0,03
Mn	1,00	2,50
Si	-	0,20
S	-	0,020
P	-	0,030
Cr	18,0	20,0
Ni	11,0	14,0
Mo	2,50	3,00
Cu	-	0,30
N	-	-
Nb	-	-
Ti	-	-

PACKAGING

MIG	Blue Metallic Wire Basket BS300: 15 Kg. Plastic Spool D300: 15 Kg. Plastic Spool D200: 5 Kg. Wooden/Metallic Bulk Spool: 250 Kg. Drum: 250-400 Kg.
TIG	Carton Boxes/Tubes: 5 Kg. (1000 mm Rod Length)
SAW	Metallic Wire Basket K415 Wooden/Metallic Bulk Spool: 250 Kg. Drum: 300 Kg.

Note: Safety Data Sheet is available on request.

TECHNICAL DATASHEET - WELDING CONSUMABLE

AWS Code:	ER316LSi
Product Code:	RW 316LSI
Werkstoff No.:	1.4430
MIG Certification:	TUV (0,8-1,6 mm) - CE - DB - CWB
TIG Certification:	TUV (1,6-4,0 mm) - CE - DB - CWB

EQUIVALENT OF OTHER STANDARD

EN ISO 14343-A:2017 Nominal Composition	AWS A5.9:2017 Alloy Designation	EN ISO 14343-B:2017 Alloy Type	AWS A5.9:2017 Composition Designation
19 12 3 L Si	ER316LSi	SS316LSi	ER316LSi

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Z [%]	64	-	-
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Impact Energy, ISO-V -20°C	-	-	-
Impact Energy, ISO-V -60°C	-	-	-
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