

Stainless solid wire

Classification

EN 12072-99 : W 20 16 3 Mn L / G 20 16 3 Mn L

General description

Solid wire for welding fully austenitic CrNiMnMo stainless steels and low temperature steels
Not susceptible for hot cracking

Shielding gases (acc. EN 439)

GTAW	I1	Inert gas Ar (100%)
GMAW	M12	Mixed gas Ar+ >0-5% CO ₂
GMAW	M13	Mixed gas Ar+ >0-3% O ₂

Approvals

	TÜV
GTAW	+
GMAW	+

Chemical composition (w%), typical, wire / rod

C	Mn	Si	Cr	Ni	Mo	N
0.015	7	0.35	20	16	2.8	0.15

Mechanical properties, typical, all weld metal

	Process	Shielding gas	Condition	0.2% Proof strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Impact ISO-V(J) -196°C
Typical values	GTAW	I1	AW	430	650	35	75
	GMAW	M12	AW	400	600	30	50

Materials to be welded

Steel grades		W.Nr.	ASTM/ACI	UNS		
N-alloyed stainless CrNi-and CrNiMo-steels	EN 10088-1/-2	X2 CrNiN 18-10	1.4311	(TP)304LN	S30453	
		X2 CrNiMoN 17-11-2	1.4406	(TP)316LN	S31653	
		X2 CrNiMoN 17-13-3	1.4429			
		X2 CrNiMoN 17-13-5	1.4439	317LN	S31726	
		X2 CrNiMoN 22-15	1.3951			
Austenitic anti-magnetic steels	SEW 390	X2 CrNiMoN18-14-3	1.3952			
		X2 CrNiMo 18-15	1.3953			
		X8 CrMnNi 18-8	1.3965			
		GX6 CrNi 18-10	1.6902			
		GX5 CrNiNb 18-10	1.6905			
Low temperature steels	SEW 685	12 Ni 14	1.5637			
		EN 10028-4	X12 Ni 5	1.5680		

Packaging

Process	Unit	Sizes (mm)			
		1.2	1.6	2.0	2.4
GTAW	2 and 10 kg tube			X	X
GMAW	15 kg spool BS300	X	X		

Other sizes and packaging on request

LNT/LNM 4455: rev. EN 15

Liability: All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance **Fumes:** Consult information on Welding Safety Sheet, available upon request