

Data sheet and application

DIM L-1.4576[©]

Mat.-no.: 1.4576	
DIN 8556:	SG X 5 CrNiMoNb 19 12
EN 12072:	G 19 12 3 Nb/W19 12 3 Nb
EN 14343-A:	G/W 19 12 3 Nb
ASW/ASME SFA- A5.9:	ER 318 (Si)
B.S.2901 part 2:	(318 S96)

Characteristics

DIM L-1.4576 is a stainless Cr-Ni welding wire for joining and surface welding on stabilized, similar, chemically resistant CrNiMo steels in chemical apparatus and equipment construction for operating temperatures from -120°C to 400°C. Also suitable for connection welding of any stainless steel (also different alloys) without special requirements of the apparatus construction. Recommended for medical devices.

Materials

For raw materials mat.-no.: 1.4401 / 1.4404/08 / 1.4435/36 / 1.4409- (G-X2 CrNiMo 19-112)
1.4420 / 1.4571/73 / 1.4580/81/83
UNS S31653 / AISi 361L / 316Ti / 316Cb

Chemical composition

C	Si	Mn	Cr	Mo	Ni	Nb	Fe
0,03	0,4	1,5	19	2,8	11,5	0,55	Remainder

Certificate of batch upon request.

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Mechanical properties of pure weld metal

Yield strength Rp0.2 MPa	Tensile strength Rm MPa	Elongation A 5 (%)	Impact energy KV J
460	680	35	100

Processing instructions

Protections gases according to EN ISO 14175
I1: weld argon 100 % / M12: Argon 97,5 % / CO2 2,5 %

Approvals

TÜV, DB, UDT