Data sheet and application

DIM L-1.4410 Superduplex ©

W.-Nr. 1.4410

DIN 8556:	SG X 2 CrNiMoN 25 7 4
EN ISO 14343-A:	G/W 25 9 4 NL
EN ISO 14343-B:	SSZ2594
AWS/ASME SFA-5.9:	ER 25 9 4 mod. (W.-Nr. 1.4501)

High-alloyed, highly corrosion resistant

Characteristics

DIM L-1.4410 Super Duplex is characterized by excellent crevice corrosion and pitting resistance in high chlorine media and seawater. Higher strength and erosion resistance compared to other stainless CrNi and Cr steels. Excellent thermal conductivity with low thermal expansion coefficient. Operating temperatures up to 250 ° C. The microstructure forms ferritic / austenitic.

Application

DIM L-1.4410 Super Duplex is used in the Chemical Industry, Petrochemical On / Offshore Industry, Marine Engineering, Tank / Apparatus / Chemical Tanker / Pipeline construction and e.g. at seawater desalination plants used.

Materials

1.4410 X2CrNiMoN 25-7-4
1.4460 X3CrNiMoN 27-5-2
1.4467 X2CrMnNiMoN 26-5-4
1.4469 X2CrNiMoN 26-7-4
1.4501 X2CrNiMoCuWN 25-7-4
1.4507 X2CrNiMoCuN 25-6-3
SAF 2507 / ASTM S 31260 / S 32550 / S 32760
Cast iron: 1.4347 GX6CrNiN 26-7
1.4463 GX6CrNiMo 24-8-2
1.4468 GX2CrNiMoN 25-6-3
1.4508 GX2CrNiMoCuWN 25-8-4
1.4515 GX3CrNiMoCuN 26-6-3

Data sheet and application

DIM L-1.4462 Duplex ©

Chemical composition

C	Si	Mn	Cr	Mo	Ni	N	Cu
< 0,02	0,6	2,5	24,0-27,0	2,5-4,5	8,0-10,5	0,2-0,3	1,5

Certificate of batch upon request.

Mechanical properties of pure weld metal at room temperature

	Yield strength Rp0.2 MPa	Tensile strength Rm MPa	Elongation A (L0=5d0) %	Impact energy KV J
u*	670	850	25	120

Processing instructions

Shield gas: Argon + 20-30% He + max. 2% CO2
Argon + 20-30% He + max. 1% O2