

Date: 2008-01-22

Revision: 8

Description:

Cromamig 307Si produces a tough, ductile, 19% Cr / 9% Ni / 7% Mn austenitic stainless weld metal which is highly crack resistant. It is intended for joining hardenable steels, armour plate, 13% Mn steels and difficult-to-weld steels, without the need for preheat. It is also recommended for dissimilar joints between stainless and mild or medium carbon steels. Welds produced with Cromamig 307Si can be PWHT without risk of sigma-phase formation and consequent loss of ductility. The deposit work hardens from 200 HV to 450 HV. APPLICATIONS: Buffer layers on 13% Mn steels used in rock crushing and earth moving equipment, prior to hardfacing. Reclaiming 13% Mn steels

APPLICATIONS: Buffer layers on 13% Mn steels used in rock crushing and earth moving equipment, prior to hardfacing. Reclaiming 13% Mn steels. Surfacing of rails, rail crossings, frogs etc. Buffer layers in highly restrained repair work.

Welding current:

DC+

Wire composition, wt.%

	С	Si	Mn	Р	S	Cr	Ni
Min		0,65	5,5			17,0	7,5
Typical	0,08	0,85	7,0	0,025	0,02	19,0	9,0
Max	0,20	1,0	7,5	0,030	0,030	20,0	9,5

	Мо	Cu	N
Min			
Typical	0,2	0,2	
Max	0,3	0,3	0,07

Shielding gas:

Acc. to EN 439:

M12, Ar + 1-3% O2, 16-21 l/min M13, Ar + 2% CO2, 16-21 l/min Chemical composition, wt.%

	С	Si	Mn	Cr	Ni
Min					
Typical	0,07	0,8	6,0	18,0	8,0
Max					

Mechanical properties

Classification:

EN ISO 14343 G 18 8 Mn AWS A5.9 ~ER307

Approvals:

DB Kennblatt Nr 43.042.10

TÜV CE

Note

AWS A5.9-95: Slight deviation in Cr, Mn and Si-content.

Product data

Diam.mm	Product code	Dip Current A	Dip Voltage V	Spray Current A	Spray Voltage V
0,8	9824-2008	60-100	18-21	150-170	24-26
1,0	9824-2010	75-140	18-21	170-200	26-28
1,2	9824-2012	130-160	18-21	175-250	26-28