WELDWIRE COMPANY, INC.

Technical Information

Low Alloy Steels

Alloy: WW4130 Class: AISI 4130 Conforms to Certification: AISI 4130

Alloy: 4130 Weld Process: Mig and Tig Welding Process

Chemical Composit	Recommende	Recommended Weld Parameters					
C = 0.28 - 0.33	Cr = 0.8 - 1.1 Mo = 0.15 - 0.25 Fe = Balance		SHORT ARC				
Mn = 0.40 - 0.60			<u>Diameter</u>	<u>Volts</u>	<u>Amps</u>	IPM	
Si = 0.15 - 0.60			.030 .035 .045	15 - 20 16 - 25 18 - 23	40 - 130 60 - 235 90 - 290	110 - 340 100 - 520 70 - 270	
Deposited Chemical Composition % (Typical)			SPRAY ARC				
C = 0.31	P = 0.014	Si = 0.25	Diameter	Volts	Amps	IPM	
Mn = 0.51	S = 0.008	Cu = 0.12	.035	23 - 26	160 - 300	320 - 600	
Mo = 0.20	Cr = 1.01	Ni = 0.25	.045	23 - 29	170 - 375	170 - 550	
			1/16	25 - 31	275 - 475	175 - 350	
Deposited All Weld	Metal Properties	<u>%</u>					
Tanaila Steanath	160,000-	:hishan	Application				
Hardness Values of Pure Weld metal as Welded			This product is for building up limited joining of AISI 4130 steels when heat treatment or flame hardening is required. It is also used for repairing forging dies shafts, castings and when				
			welding on m	edium to high	carbon steels.		
33 – 38 HRC Machinable			Preheat and inter-pass is recommended and may also need to be				
Can be flame hardened to 50 HRC			followed by p	followed by post heat treating.			

