AUTOMELT S33

AWS Classifications:

EN 760 SA AF 2 54 DC

DIN 32522 B FB 6 54355DCBK

Characteristics:

Automelt S33 is an agglomerated Aluminate-Fluride basic type SAW flux for stainless steel welding. Behavior to carbon in stainless steel weld deposit is strictly neutral therefore can be used for extra low carbon stainless steels. It is a non Cr-compensating flux but the loss of Chromium is low. It offers smooth and closed rippled X-ray quality crack resistant weld deposit with good slag detachability.

Flux Analysis	:												
Basicity index No.				~3.2		Grain Size (mm)			0.25-2.00				
Wall Neutrality No.				-		Current/polarity			DC(+)/AC~800A max.				
Flux Analysis Si				iO ₂ +TiO ₂ ~10%; Al ₂ O ₃ +MnO~35%; CaF ₂ ~50%									
Redrying & Baking 30				300-350°C for one hour before use									
All Weld Metal Chemistry, wt% (Typical):													
AWL Wires	С	Cr		Ni	Мо	1	۸n	Si	Р	S	Cu	Nb	
	max								max	max	max	max	
Subinox 308L	0.03	19.5-	22.0	9.0-11.0	0.75 ma	ax 1.0-2.5		0.30-0.65	0.03	0.03	0.75	-	
Subinox 316L	0.03	18.0-	20.0	11.0-14.0	2.0-3.0) 1.0)-2.5	0.30-0.65	0.03	0.03	0.75	-	
Subinox 347	0.08	19.0.21.5		9.0-11.0	0.75 ma	1.0)-2.5	0.30-0.65	0.03	0.03	0.75	1xC-1.0%	
Subinox 318	0.08	18.0-20.0		11.0-14.0	2.0-3.0) 1.0)-2.5	0.30-0.65	0.03	0.03	0.75	8xC-1.0%	
Subinox 309L	0.03	23.0-25.0		12.0-14.0	0.75 ma	1.0 nx)-2.5	0.30-0.65	0.03	0.03	0.75	-	
All Weld Metal Mechanical Properties:													
With wires				Condition	U.	TS	E%		CVN Impact				
					MPa		(1=4xd)		°C			J	
Subinox 308L				AW	520min		35 min		+20		70min		
Subinox 316L				AW	490	min	30 min		+20		70min		
Subinox 347				AW	520	min	30 min		+20		70min		
Subinox 318				AW	550	min	n 25 mir		+20		70min		
Subinox 309L				AW	520	min	30 min		+20		70min		
AW As Welded Values subjected to change if parameters are varied markedly.													
Typical Applications: Recommended for high alloy austenitic stainless steel welding.													
Packing Data							Net Wt. Kgs.						
Poly lined paper bags (Standard)						30							
Steel Drums (on demand)						100							
Special Test :	,												
Test Type						Remarks							
						* Tested with subinox-308L wire & gives 42J at-196°C							
IGC (As per ASTM-A262)						* Passed practice 'E' Test with subinox 308L, Subinox 309L & Subinox 316L wires.							
Subinox 309L & Subinox 316L wires.													



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