AUTOMELT B31

AWS Classifications:		
With Wire	AWS 5.17/5.23	AWS 5.17M/5.23M
Automelt EA14	F7A4/P4 - EH14	F48A4/P4 - Eh14
Automelt EA3	F8A2/F7P4 - EA3-A3	F55A3/F49P4-EA3-A3

Approvals:

ABS, LRA, BV, DNV, IRS, MND

Characteristics:

Automelt B31 is Aluminate fluoride-basic type of submerged arc welding flux. It is neutral flux with no Si and Mn pickup. It gives X-ray quality welds with good impact properties. It is ideal for welding of thick-walled vessels.

Basicity Wall N		l Neutrality No.		Grain Size (mm)			
1.5*				7		0.25-1.60	
*-As per Boniszewski Flux Analysis:							
SiO ₂ + TiO ₂		CaO + MgO		Al ₂ O ₃ + MnO		CaF,	
15 %		20 % 30 %		30 %	35 %		
All Weld Metal Chemistry, wt% (Typical):							
With wire	С	Mn	Si	S	Р	Мо	
Automelt EH14	0.07	1.50	0.40	<0.03	< 0.03	-	
Automelt EA3	0.06	1.55	0.50	<0.03	<0.03	0.45	
All weld metal properties:							
With wire	Condition	UTS	YS	% Elongation	CVN Im	pact (J)	
		Мра	MPa	(L=4d)	-30°C	-40°C	
Automelt EH14	AW	>510	>420	>24	>50	>30	
Automelt EH14	PW	>480	>400	>24	>60	>40	

AW - As Welded; PW - After Post Weld Heat Treatment of 620°C for 1 hour

AW

PW

Typical Applications:

Automelt EA3

Automelt EA3

Mainly used for multi-pass welding of boilers and pressure vessels, with steel grades including IS 2002 Gr2B, ASTM A516 Gr. 60/70, etc.

>470

>420

>20

>22

Type of current / polarity: DC (+) ~ 800A max.

Redrying Conditions: It is advisable to dry the flux at 300-350°C for 1 Hr prior to use

>550

>510

Packing Data	
	Net Wt. Kgs.
Poly lined paper bags (Standard)	30
Steel Drums (on request)	100







>30

>40

>30