AUTOMFIT B41

AWS Classifications:					
WithWire	AWS 5.17/5.23	AWS 5.17M/5.23M			
Automelt EH10K	F7A8/P8 - EH10K	F48A6/P6 - EH10K			
Automelt EH14	F7A6/P6 - EH14	F48A5/P5 - EH14			
Automelt EA3	F8A4 - EA3-A3	F55A4 - EA3-A3			

Approvals: ABS Characteristics:

Automelt B41 is Fluoride-basic type of submerged arc welding with high basicity. It is neutral flux, ideal for applications involving the alloyed wire, like the Automelt FC series. Due to the neutral design of the flux, pickup/burn-off of Si & Mn from the wire is almost negligible. The high basicity ensures excellent sub-zero impact properties, as well as good resistance to aging.

	Basicity	Wall Neutrality No.	Grain Size (mm)
	3.1*	5	0.25-1.60
*	-As per Boniszewski		

Flux Analysis:

All World Motel Chemistry, vitty (Timical)				
10 %	35 %	20 %	30 %	
$SiO_2 + TiO_2$	CaO + MgO	Al ₂ O ₃ + MnO	CaF ₂	

All Weld Metal Chen	All Weld Metal Chemistry, wt% (Typical):					
With wire	С	Mn	Si	S	Р	
Automelt EH10K	0.06	1.40	0.30	<0.025	<0.030	
Automelt EH14	0.06	1.50	0.20	<0.025	<0.030	
Automelt EA3	0.07	1.70	0.30	<0.025	<0.030	

All Weld Metal Mechanical Properties:								
With AWL wires	Condition	UTS	YS	E%	CVN Impact, J			
		MPa	MPa	(I=4Xd)	-30°C	-40°C	-50°C	-60°C
Automelt EH10K	AW	>510	>420	>24	>90	>70	>50	>30
Automelt EH10K	PW	>480	>400	>24		>90	>70	>50
Automelt EH14	AW	>510	>420	>24	>60	>50	>30	
Automelt EH14	PW	>480	>400	>24	>70	>60	>40	
Automelt EA3	AW	>550	>470	>22	>60	>40		

AW - As Welded; PW - After Post weld heat treatment of 620°C for 1 Hr Typical Applications:

Automelt B41 is used mainly for the applications involving highest quality of SAW welds, including for nuclear, power, petrochemical and offshore sectors. When used with unalloyed and low alloyed wires makes this flux suitable for welding of pressure vessels, steam generators, reactor safety tanks, etc.

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







