Duplex EN ISO 14174 S A AF 2

Applications

Used for welding of offshore oil/gas, chemical and petrochemical process industries, e.g. pipework systems, flowlines, risers, manifolds etc.

Characteristics on Usage

- ① Duplex stainless steel pipe, plate, fittings and forgings have an approximate 50:50 microstructure of austenite with a ferrite matrix.
- ② Superflux209 is a inert flux that composition of Si and Mn is hardly changed though welding condition is changed, and superflux209 is a high basicity flux (the basicity of superflux300 is 1.8).

Notes on Usage

(1) Dry the flux at 300~350°C (572~662°F) for 60 minutes before use.

② Preheat not generally required. Interpass temperature 100~150°C max, heat input in the range 1.0 ~ 1.5KJ/min-depending on material thickness.

Approval					I Current		I Basicity Index					
					DC + 1.8			.8				
Typical Chemical Composition of All-Weld Metal (%)												
С	Si	Mn	Р	S	Cr	Ni	Мо	Cu	Ν			
0.02	0.49	1.28	0.017	0.001	22.15	9.28	3.12	0.20	0.20			

Typical Mechanical Properties of All-Weld Metal									
TS MPa(lbs/in²)	EL (%)	Temp. °C (°F)	CVN-Impact Value J (ft.lbs)						
1	(/	0(1)	- (/						
800 (116,000)	28	-46 (-50)	70 (52)						