STAINLESS STEEL (Duplex SS)

CLASSIFICATION:

ISO 3581-A E 25 9 4 N L B 22

KEY FEATURES:

- Basic coated nonsynthetic electrode
- Austenitic-ferritic duplex micro structure
- Excellent high strength combined with improved resistance to pitting and SSC in chloride environment
- Super duplex SS weld with N addition
- Weld metal characteristics similar to super duplex wrought and cast alloys
- Easy slag removal
- Uniform and fine ripples
- Radiographic quality weld

APPROVALS: IBR/CE

TYPICAL APPLICATIONS:

- Welding of super duplex stainless steels UNS S 32750, S 32760, SFA 2507, Zeron 100 and Casting alloys e.g. ASTM A890 Gr.5A
- Suitable for materials 1.4410, 1.4460, 1.4462, 1.4463
- Pipe work systems, flow lines, risers, manifolds, process equipment for use in offshore oil and gas industries, chemical and petrochemical plant
- Also to be used on duplex 2205 grade

TYPICAL CHEMICAL COMPOSITION OF UNDILUTED WELD METAL, Wt %:

С	Mn	Si	Cr	Ni	Mo	N
0.03	1.1	0.9	26	8.9	3.6	0.25

MECHANICAL PROPERTIES OF ALL WELD METAL:					
	Constitution	UTS, MPa	EL%	CVN Impact, J	
	Condition			-20°C	PREN
Typical	As Welded	880	27	50	50
Specification		760 min	15 min	47 min	40 min

PARAMETERS - PACKING DATA:					
Ø x L, mm 2.0 x 300 2.5 x 350	Amperage, A 50-80 70-110	AC (70 OCV) /DCEP	All Positions, except vertical Downwards		
3.15 x 350 4.0 x 350	90-140 140-180	REDRYING CONDITION: 250-300°C for minimum 1 hr.			

Available in Standard carton packing of 10 kg box containing 5 cartons of 2 kgs each.

EQUIVALENT:						
GMAW	GTAW Tiginox 2594	FCAW Miginox FC 2594	SAW			
			Flux	Wire		
Miginox 2594			Automelt S33	Subinox 2594		

