



# TIGINOX 2594

GTAW SUPER DUPLEX STAINLESS STEEL

AWS A/SFA 5.9 ER2594

### CLASSIFICATION:

EN ISO 14343-A  
W 25 9 4 N L

### KEY FEATURES:

- 25/9/4 type super duplex SS TIG rod
- Austenitic-ferritic duplex microstructure
- Improved resistance to pitting and SSC in chloride environment
- High Pitting Resistance Equivalent Number (PREN)
- Radiographic quality weld
- High tensile and yield strength

### APPROVALS: 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
- Pipe work systems, flow lines, risers, manifolds, pumps & valves
- Process equipment in offshore oil and gas industries, petrochemical plant
- Also to be used on duplex 2205 grade



### TYPICAL CHEMICAL COMPOSITION OF BARE SOLID WIRE, Wt %:

C	Mn	Si	Cr	Ni	Mo	Cu	N
0.02	0.9	0.45	24.3	8.5	3.2	0.17	0.30

### MECHANICAL PROPERTIES OF ALL WELD METAL:

	Condition	UTS, MPa	EL%	PREN
Specification	As Welded	760 min	15 min	40 min

### PARAMETERS - PACKING DATA:

Ø, mm	Net Wt., Kg		
1.6 x 1000	20	 DCEN <b>STORAGE / HANDLING :</b> Keep dry during storage and handling	All Positions 
2.0 x 1000	20		
2.4 x 1000	20		

Shielding Gas	Gas Flow Rate, LPM
Ar	10-15

Available in Standard carton packing of 20 kg box, containing 4 plastic tubes of 5 kg each.