

# KT-2594

### Classification

AWS A5.9/A5.9M

ER2594

### Applications and Features

- ( 1 ) Weld metal is super duplex stainless steel with 25%Cr-9%Ni-4%Mo-0.25%N.
- ( 2 ) Higher strength and excellent resistance to pitting and stress corrosion cracking.
- ( 3 ) It is suitable for welding super duplex stainless steel with such as Zeron 100 and 2507

### Typical Chemical Composition of Wire (wt%)

C	Si	Mn	P	S	Cr	Ni	Mo	N
0.015	0.42	0.65	0.013	0.004	25.1	9.2	3.9	0.25

### Typical Mechanical Properties of Weld Metal (Shielding Gas : Ar+2% O<sub>2</sub>)

Tensile Strength MPa	Yield Strength MPa	Elongation %
840	650	28

### Sizes and Suggested Operating Range

Size mm	Current A	Gas Flow L/min	Shielding Gas
16	75 - 100	25	Ar
24	150 - 200	25	Ar

Diam.	5 kg Tube
1.6mm	KT259416
2.4mm	KT259424

TALARC Pty Ltd  
10-16 Syme St  
Brunswick, Vic 3056  
Ph. +61 3 9388 0588 Fax: +61 3 9388 0710  
W: [www.talarc.com](http://www.talarc.com) E: [sales@talarc.com](mailto:sales@talarc.com)