

# PRODUCT DATA SHEET

**NAME OF PRODUCT** **ER100S-1**

**Classifications:** **AWS A5.28** **ER100S-1**

### TYPICAL MACHANICAL PROPERTIES

TENSILE ( N/mm <sup>2</sup> )	YIELD ( N/mm <sup>2</sup> )	Al% 5d	CVN + 20°C J	CVN - 50°C J			
820	730	23	150	75			

### CHEMICAL COMPOSITION ( average )

C %	Si %	Mn %	P %	S %	Cu %	Cr %	Ni %	Mo %	V %	Al %	Zr %	Ti %		
0.07	0.45	1.60	<0.010	<0.010	<0.25	0.15	1.70	0.40	<0.030	<0.030	<0.030	<0.030		

### WELDING PROCESS

Shielding Gas	MAG ( Argon + 20% O <sub>2</sub> )
Pre Heating	150°C
Post Welding	as-welded

### DIMENSIONS

MIG	0.035	0.045												
TIG	1/16	3/32	1/8											

### APPLICATION

NiCrMo alloyed steel with high yield strength for low temperature application.

Shipbuilding sector, structural work, industrial equipment, petrochemical and building industry, cranes, tanks etc.