

# TECHNICAL DATASHEET Version S19

## AI-1740

## **Specifications**

AWS/ASME ER 80S-B2

### **Description and Applications**

Copper coated Cr-Mo alloyed wire for MIG welding of high temperature steels. Suitable for applications up to 550° C and for welding of heat treatable steels of similar composition.

## **Typical Weldmetal Analysis**

С	Mn	Si	Cr	Мо
0.11	1.00	0.60	1.20	0.50

## **Mechanical Properties of Weldmetal**

	As Welded			
Tensile Strength	590-690MPa			
Yield Strength (0.2%)	490MPa			
Elongation	22% (L=5D Min.)			
Charpy V	78 Joules			
Condition	Stress relieved at 720°C			
Shielding Gas	Ar + 20-25% CO <sub>2</sub>			

#### **Welding Parameters**

Diameter (mm)	Current type	Amps
1.2	DC(+)	150-220
1.6	DC(+)	180-300

#### **Welding Instructions**

Cooling rate should not exceed 80°C per hour until the part reaches 300°C. Subsequent air cooling at rates not exceeding 100°C per hour.

## **Welding Positions**

(1G, 1F) Downhand/flat position, (2F) Horizontal position, (2G) Horizontal vertical position

#### Disclaime

All figures in this datasheet should be considered indicative only. No guarantee is made as to their accuracy. All figures subject to change without notice. Batch analysis is available for all products sold. Should you require any further information, please contact us at <a href="mailto:sales@alloysint.com.au">sales@alloysint.com.au</a>



# **ALLOYS INTERNATIONAL PTY LTD**

25 Raymond Road Laverton North Victoria 3026 Telephone: +61 3 8368 2222 | Facsimile: +61 3 8368 2200

ABN 53 112 712 286