

# TECHNICAL DATASHEET Version S19

#### AI-1785

### **Description and Applications**

**AI-1785** is a Chromium, Tungsten, Molybdenum gas shielded hardfacing wire giving a heat treatable and forgeable martensitic deposit with a hardness of 52-55 HRc.

The alloy is designed to resist low stress abrasion with impact and high compressive stresses.

**Applications include**: Cable Sheaves, plastics screws, animal feed extruder screws, conveyer rolls, rock drills, earthmoving pins, screw conveyors, cutting edges etc.

### **Typical Weldmetal Analysis**

С	Mn	Si	Cr	Fe	W	Ti	Мо
0.41	1.55	0.80	5.60	Bal	1.50	1.30	1.40

## **Mechanical Properties of Weldmetal**

	As Welded				
Wear Index	35%				
Microstructure	Martensite				
Machinability	Grinding				
Hardness	52-55HRc (Undiluted Weldmetal)				
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 Positions**

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

#### Disclaimer

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>



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