

AUTOCRAFT LW1-6 PRODUCT DATA SHEET

SOLID WIRE FOR MILD AND LOW ALLOY STEEL



AUTOCRAFT LW1-6

- A Higher Manganese / Silicon Wire for GMAW Welding of Mild & Low alloy steel
- Designed for Use with CO2 and Argon Based Shielding Gases.
- Wide Range of Minispool, Handispool and Autopak Packaging Options.

CLASSIFICATIONS:

ISO AS/NZS 14341: AWS/ASME-SFA A5.18: B G 49A 3U C1/M21/M24 S6 Er70S-6

TYPICAL ALL WELD METAL MECHANICAL PROPERTIES:

	USING ARGON + 18-25% CO ₂	Welding Grade CO_2
Yield Stress	450 MPa.	410 MPa
Tensile Strength	550 MPa.	525 MPa
Elongation	29 %	32 %
CVN Impact Values	120 J @ -20°C	110 J @ -20°C

RECOMMENDED SHIELDING GAS:

AS 4882:	ISO 14175 / AWS A5.32:
SG-AC-18, or SG-AC-10	M20
SG-AC-18, or SG-AC-20	M21*- Cert supplied
SG-ACO-5/2	M23
SG-C	C1

Ar+CO2 (8-25%) or Ar+CO2+O2 or Welding Grade CO2 $\,$

CIGWELD Data Sheet **AUTOCRAFT LW1-6 V2-2023** CIGWELD Pty Ltd An ESAB Brand. **www.cigweld.com.au**

TYPICAL ALL WELD METAL ANALYSIS:

USING ARGON + 18-25% CO ₂ :	
C:	0.07%
Mn:	1.55%
Si:	0.88%
S:	0.012%
P:	0.015%





DESCRIPTION AND APPLICATIONS:

Autocraft LW1-6 is a high quality copper coated welding wire suitable for the all positional Gas Metal Arc Welding (GMAW) of mild and low alloy steels, used in general fabrication and structural work. The high quality copper coating ensures problem free feeding, smooth current pick-up and minimal contact tip wear. The higher silicon content of Autocraft LW1-6 ensures excellent operator appeal, improved fillet shape / side wall wash at weld toes and very low spatter levels important for welding light to medium gauge sheet and tubular steel sections. Fillet welds exhibit a mitre to slightly convex profile with an even and smooth contour. The higher Manganese / Silicon levels give improved weld metal deoxidation when welding steels with moderate amounts of rust or mill scale.

STORAGE RECOMMENDATIONS:

When held under the recommended storage conditions unopened packs of Autocraft LW1-6 wires are expected to remain in 'factory fresh' condition for at least 12 months.

For storage over 12 months or under adverse (damp or high humidity) climatic conditions the use of heated weather proof store rooms/cupboards/containers maintained at 10-15°C above ambient temperature (with a maximum of 40°C) and at a maximum humidity of 60% R.H. is recommended. Product should be stacked on racks or pallets clear of the floor and walls.

TYPICAL DIFFUSIBLE HYDROGEN LEVELS TO AS3752:

1.0 - 2.0 mls of hydrogen / 100gms of deposited weld metal.

PACKAGING DATA:

WIRE DIAMETER (MM)	ТҮРЕ	PACK WEIGHT	PACK PART NO.
0.8	Handi Spool	5kg	721109
	Spool	15kg	720114
0.9	Handi Spool	5kg	720161
	Spool	15kg	720090
	Autopak	250kg	720122S
1.0	Spool	15kg	720094
1.2	Spool	15kg	720096
	Autopak	250kg	720124S
1.6	Spool	15kg	720095

OPERATING DATA:

WIRE DIAMETER (MM)	CURRENT RANGE (AMPS)	VOLTAGE RANGE (Volts)	WIRE FEED SPEED Meters/min	ALL POSITIONAL WELDING Applications
0.8	50-180	14-22	3.5-14	
0.9	70-230	15-26	3.5–15	
1.0	100-280	16-29	3.5–15	
1.2	120-350	18-32	2.5-15	
1.6	180-390	18-34	2.5-10	

* Mini Spool (ø100mm); Handi Spool (ø200mm); Spool (ø300mm); AutoPak (ø510mm x H.770mm);



COMPARABLE CIGWELD PRODUCTS:

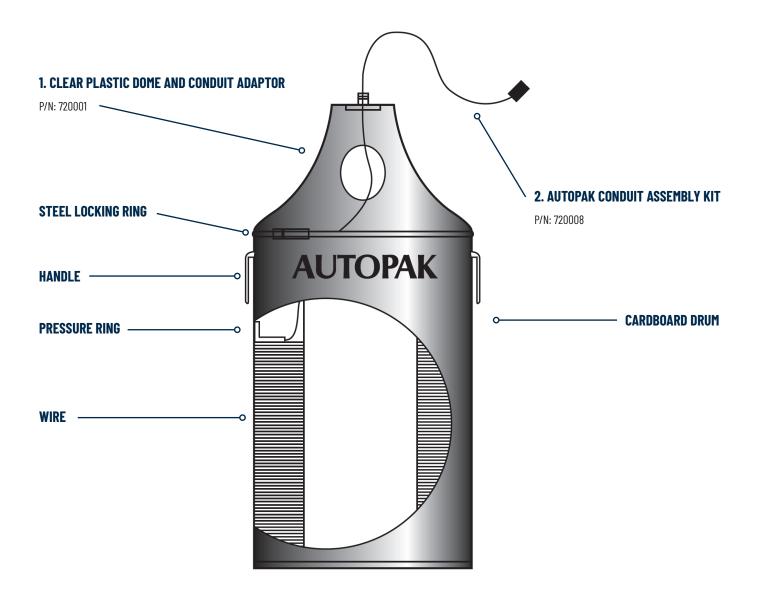
- Comweld LW1-6 TIG rod:
- AWS/ASME-SFA A5.18: ER70S-6
- 1.6mm: 321417
- 2.4mm: 321418





AUTOPAK® PARTS LIST:

AUTOPAK ACCESSORIES "STANDARD TYPES".	PART NUMBER
1. Clear plastic AUTOPAK dome (510mm base diam. x 300mm height).	720001
2. AUTOPAK conduit assembly kit	720008



- Reduced downtime
- Straight/Twist free wire
- Smaller Acceleration weight
- Fully Enclosed pack and pay-off system
- Compact and manoeuvrable

- = Higher productivity outcomes.
- = Greater wire accuracy in the joint.
- = Improved arc starting.
- = Less stress on wire-feed unit.
- = Less wire slippage and burn backs.
- = Protection against dust, dirt and moisture.
- = Ease of use in confined and restricted locations.
- = IAutopak occupies only 0.2m² of floor space.





