Hobbyweld Acetylene Original (Small) Cylinder

The Hobbyweld Acetylene Original (Small) cylinder is a compact, rent-free fuel-gas solution containing high-purity acetylene for oxy-acetylene welding, brazing, cutting, heating and metalwork. When used with oxygen, acetylene produces an intense, precisely controllable flame suitable for fusion welding, silver soldering and high-temperature repair work. Its portable size makes it ideal for mobile engineers, garages, agricultural maintenance, fabrication workshops and home users without ongoing cylinder rental costs.

Technical Specifications

Product Name: Hobbyweld Acetylene Original (Small) Cylinder
Gas Type: High-purity industrial acetylene fuel gas
Capacity: Original (Small) cylinder
UN Number: UN 1001 - Acetylene, dissolved - **Hazard Class:** Class 2.1 - Flammable Gas
Cylinder Material: Steel cylinder containing a porous mass and solvent
Valve Type: Acetylene fuel-gas valve
Dimensions: Approx. height: 600-700 mm; Diameter: 100-150 mm
Flame Temperature: Approx. 3,200°C when used with oxygen
Connection: Standard Acetylene Regulator
Certification: Manufactured, filled and tested to applicable UK gas-cylinder standards

Key Features

High-Temperature Fuel Gas: Produces an intense oxy-acetylene flame for welding, brazing, cutting and heating.
Precision Flame Control: Supports accurate heat control for thin materials, detailed repairs and delicate joint work.
Versatile Metalworking Use: Suitable for fusion welding, brazing, silver soldering, heating and light-to-medium cutting.
Portable Cylinder Size: Compact Original cylinder is convenient for mobile, workshop and occasional use.
Rent-Free System: One-off refundable deposit with refill-as-needed convenience.

Applications

Oxy-Acetylene Welding: Suitable for fusion welding thin-gauge steel and ferrous metals.
Brazing & Silver Soldering: Provides concentrated heat for joining and repair work.
Cutting & Heating: Suitable for light-to-medium steel cutting, localised heating and metal bending.
Workshop & Mobile Repairs: Ideal for garages, fabrication, agricultural maintenance and portable oxy-fuel sets.

Handling and Storage

Store and use the cylinder upright in a cool, dry and well-ventilated area.
Secure the cylinder during storage, use and transport to prevent it falling, rolling or being struck.
Keep away from heat, sparks, flames, electrical equipment and all other ignition sources.
Do not store or transport the cylinder horizontally. If it has been laid down, follow the supplier's instructions before use.
Keep the valve closed when not in use and fit only compatible acetylene regulators and oxy-fuel equipment.

Safety Precautions

Acetylene is extremely flammable and forms explosive mixtures with air. Keep all ignition sources away and never smoke near the cylinder.
Always fit suitable flashback arrestors and non-return valves to the oxygen and fuel-gas lines.
Never use oxygen, compressed air or other gases to pressure-test acetylene equipment.
Open the cylinder valve slowly and do not open it more than necessary for rapid emergency shut-off.
Do not use damaged, leaking, overheated or heavily corroded cylinders. If a leak cannot be stopped safely, isolate the area, remove ignition sources and contact the supplier or emergency services.
Ensure adequate ventilation and follow the equipment manufacturer's lighting, shutdown and purging procedures. Safety Data Sheet (SDS) available on request.

Regulatory Compliance

The Hobbyweld Acetylene cylinder is manufactured, filled, tested and transported in accordance with applicable UK requirements for dissolved acetylene, flammable gases and pressure cylinders. Users must follow relevant workplace safety, fire prevention, transport, storage and oxy-fuel regulations, together with the cylinder owner's and equipment manufacturer's instructions.

Environmental Impact

The cylinder is part of a refillable exchange system, reducing packaging waste and supporting repeated reuse. Acetylene combustion produces carbon dioxide and water, so unnecessary gas release and prolonged flame use should be avoided. Empty cylinders must be returned through the authorised exchange network for inspection, testing and refilling; they must not be vented, scrapped or disposed of by the user.

Product Life Cycle and Maintenance

Expected Life Span: Determined by cylinder condition, porous-mass integrity and statutory testing
Inspection Frequency: Visual check before each use; periodic inspection and testing by the cylinder owner
Maintenance: Store upright, keep dry, protect from impact and keep the valve and connections clean
End of Life: Return through the authorised supplier exchange system

Instructions for Use

1. Secure the acetylene and oxygen cylinders upright and fit compatible regulators, hoses, non-return valves and flashback arrestors.
2. Check that all equipment is clean, undamaged and suitable for acetylene service; never use oil or grease on oxygen equipment.
3. Open the acetylene valve slowly, set the required working pressure and leak-test every connection using an approved solution.
4. Light and adjust the torch strictly in accordance with the torch manufacturer's procedure, then set a suitable neutral or process-specific flame.
5. After use, shut down in the correct sequence, close both cylinder valves, release downstream pressure and store the equipment securely.

Ordering and Exchange Information

Available through a rent-free cylinder system with a refundable deposit and pay-as-you-go refills. Empty Hobbyweld acetylene cylinders can be exchanged for a full equivalent cylinder through an authorised distributor.
Available for in-store collection and exchange from Fix and Weld. Cylinders must be returned with the valve intact and in an acceptable condition. Never refill or transfer acetylene yourself.

Frequently Asked Questions (FAQs)

Q: What is Hobbyweld acetylene used for?
A: It is used with oxygen for gas welding, brazing, silver soldering, cutting, heating and metal-bending applications.

Q: Do I need an oxygen cylinder as well?
A: Yes. Oxygen is required to produce the high-temperature oxy-acetylene flame used for welding and cutting.

Q: Why must an acetylene cylinder remain upright?
A: The cylinder contains acetylene dissolved in a solvent within a porous mass. Upright use helps keep the solvent stable and prevents it entering the valve and regulator.

Q: What safety equipment is required?
A: Use compatible regulators, correctly identified hoses, non-return valves and suitable flashback arrestors on both gas lines, together with appropriate PPE.

Q: What regulator do I need?
A: Use a dedicated acetylene regulator with the correct BS 2 connection and a pressure rating suitable for the cylinder and process.

Contact Information

For product enquiries, safety advice, or technical support, please contact Fix and Weld on Tel. 01453 756393 or sales@fixandweld.com

Legal Disclaimer

This datasheet is intended for guidance only. Users must comply with industrial gas regulations and manufacturer instructions.