

Hobbyweld 15 Ultra (Large) Cylinder

The Hobbyweld 15 Ultra (Large) cylinder is the highest-capacity, rent-free shielding gas solution in the Hobbyweld 15 range, containing 83% argon, 15% carbon dioxide and 2% oxygen. Developed for MIG welding medium, thick and structural mild steel, it provides strong penetration, excellent arc stability and a clean weld-bead profile with reduced spatter. Its extended gas volume makes it ideal for professional fabrication, engineering, agricultural repair, automotive work and high-throughput welding environments without ongoing cylinder rental costs.



Technical Specifications

Product Name: Hobbyweld 15 Ultra (Large) Cylinder

Gas Type: Argon / Carbon Dioxide / Oxygen shielding gas mix

Gas Composition: 83% Argon / 15% CO₂ / 2% O₂

Capacity: Ultra (Large) cylinder

Gas Volume: Approx. 8 m³ at 200 bar

UN Number: UN 1956 – Compressed Gas n.o.s.

Hazard Class: Class 2.2 – Non-Flammable Gas

Cylinder Material: Steel cylinder

Valve Type: BS3 welding gas outlet

Dimensions: Approx. height: 1,400 mm; Diameter: 200 mm

Pressure at 15°C: Approx. 200 bar

Connection: Standard Inert Gas Regulator

Certification: Manufactured and filled to applicable UK gas cylinder standards

Key Features

Optimised Shielding Blend: 83% argon, 15% carbon dioxide and 2% oxygen for MIG welding medium, thick and structural mild steel.

High Penetration: Provides reliable fusion and penetration on heavier steel sections and structural components.

Stable Arc Performance: Promotes controlled wire transfer, consistent arc behaviour and reduced spatter.

Extended Runtime: The large cylinder capacity supports longer welding periods between exchanges.

Rent-Free System: One-off refundable deposit with refill-as-needed convenience.

Applications

Heavy Mild Steel MIG Welding: Suitable for medium, thick and structural mild-steel sections.

Fabrication & Engineering: Ideal for frames, supports, machinery and general structural work.

Automotive & Agricultural Repair: Suitable for chassis work, plant, machinery and vehicle repairs.

High-Throughput Use: Designed for professional workshops, production environments and mobile welding units requiring maximum runtime.



Handling and Storage

Store upright in a cool, dry and well-ventilated area.

Secure the cylinder during storage, use and transport to prevent it falling or rolling.

Keep away from heat, direct sunlight and sources of physical damage.

Keep the valve closed when not in use and use only compatible regulators and welding equipment.

Safety Precautions

The gas mixture is non-flammable, but the cylinder contains gas under high pressure. Do not use cylinders that are damaged, leaking, heavily corroded or have a defective valve.

Open the valve slowly and check all regulator and hose connections for leaks before welding.

Ensure adequate ventilation, as released shielding gas can displace oxygen in confined spaces.

Safety Data Sheet (SDS) available on request.

Regulatory Compliance

The Hobbyweld 15 cylinder is manufactured, filled and tested in accordance with applicable UK compressed-gas and pressure-cylinder requirements. Users must follow relevant workplace safety, transport, storage and welding regulations, together with the cylinder owner's instructions.

Environmental Impact

The cylinder is part of a refillable exchange system, reducing packaging waste and supporting repeated reuse. The shielding gas produces no combustion by-products during normal use, although unnecessary release should be avoided. Return empty cylinders through the authorised exchange network for inspection and refilling.

Product Life Cycle and Maintenance

Expected Life Span: Determined by cylinder condition and statutory testing

Inspection Frequency: Visual check before each use; periodic testing by the cylinder owner

Maintenance: Store correctly, keep dry and protect from impact damage

End of Life: Return through the authorised supplier exchange system

Instructions for Use

1. Connect a compatible MIG welding regulator with the correct BS3 fitting.
2. Secure the cylinder upright and check that the regulator, hose and torch are in good condition.
3. Open the cylinder valve slowly and check all connections for leaks.
4. Set the shielding-gas flow to suit the welding process, typically around 10–18 L/min.
5. Close the cylinder valve after use, release downstream pressure and store securely.





Ordering and Exchange Information

Available through a rent-free cylinder system with a refundable deposit and pay-as-you-go refills. The Ultra cylinder provides the highest gas capacity in the Hobbyweld 15 range for maximum runtime between exchanges.

Empty Hobbyweld cylinders can be exchanged for a full equivalent cylinder through an authorised distributor.

Available for in-store collection and exchange from Fix and Weld.

Frequently Asked Questions (FAQs)

Q: What is Hobbyweld 15 used for?

A: It is designed primarily for MIG welding medium, thick and structural mild steel where increased penetration is required.

Q: Why does Hobbyweld 15 contain more carbon dioxide?

A: The higher carbon dioxide content helps increase heat input and penetration when welding heavier mild-steel sections.

Q: Is Hobbyweld 15 suitable for stainless steel or aluminium?

A: No. Use a gas specifically recommended for stainless steel or pure argon for MIG welding aluminium.

Q: What gas flow rate should I use?

A: A typical starting point is 10–18 L/min, adjusted for the torch, joint, material thickness, environment and welding conditions.

Q: What regulator do I need?

A: Use a compatible MIG welding regulator designed for the cylinder's BS3 outlet connection and working pressure.

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.