



Hobbyweld 5 Product Datasheet

The Professional Choice for MIG/MAG Welding

Product Overview

Hobbyweld 5 is a premium shielding gas blend designed specifically to enhance welding performance for both professionals and enthusiasts. With its carefully balanced composition of Argon, Carbon Dioxide, and Oxygen, Hobbyweld 5 is the go-to solution for high-quality MIG/MAG welding, particularly when working with thin sections of carbon and mild steel. Its versatility, ease of use, and safety features make it the perfect choice for applications such as automotive restoration, light fabrication, and general repairs.



Chemical Composition

- Argon (Ar): 93%
- Carbon Dioxide (CO₂): 5%
- Oxygen (O₂): 2%

Blend Advantages

- Optimised for superior arc stability and minimised spatter
- Enhances weld bead appearance and penetration
- Reduces post-weld cleaning and finishing time
- Supports a wide range of steel thicknesses, especially thin sections up to 7mm

Applications

- MIG/MAG Welding: Specially formulated for Metal Inert Gas (MIG) and Metal Active Gas (MAG) welding processes
- Material Suitability: Ideal for carbon and mild steel work, commonly used in automotive, bodyshop, and light engineering environments
- Sheet Metal Welding: Performs exceptionally well with sheet or thin gauge steel, making it the preferred choice for vehicle restoration and repair
- Light Fabrication: Suitable for the welding of frames, panels, and fabrications in workshops and garages

Product Benefits

- Cleaner Welds: The balanced blend results in minimal oxidation and reduced spatter, leading to cleaner and visually appealing welds.



- **Improved Control:** Enhanced arc stability allows both beginners and professionals greater control over the weld pool, reducing the chances of burn-through on thin sections.
- **Versatile Performance:** Suitable for a wide array of applications, from intricate automotive panel repairs to general maintenance tasks.
- **Consistent Results:** Hobbyweld 5 ensures uniform, high-quality welds with each use, regardless of the operator's skill level.

Recommended Usage

- **Material Thickness:** Best suited for steel sections less than 7mm thick. Provides optimum weld characteristics for thin sheet metal.
- **Ideal Environments:** Workshops, garages, auto repair shops, and hobbyist workstations
- **Process Compatibility:** Perfect for both short-circuiting and spray transfer welding techniques

Available Cylinder Sizes

Cylinder	Size	Volume (m ³)	Pressure (bar)	Product Code	Height (approx.)	Diameter (approx.)	Total Weight (approx.)	Outlet Connection
Original	9L	1.33	137	523059	860mm	140mm	17kg	BS3
Plus	20L	4.88	230	523062	950mm	200mm	32kg	BS3
Ultra	20L	6.09	300	523069	1050mm	200mm	37kg	EN561 Quick-Action

Technical Specifications

- **Gas Type:** Shielding Gas Blend for MIG/MAG Welding
- **Composition:** 93% Argon, 5% Carbon Dioxide, 2% Oxygen
- **Recommended Welding Processes:** MIG (GMAW), MAG (GMAW)
- **Recommended Materials:** Carbon Steel, Mild Steel (sheet/thin sections <7mm)
- **Cylinder Pressure:** See table above for specific ratings
- **Valve Type:** Consult your supplier for compatibility with your equipment

Safety and Handling

- **General Safety:** Always use appropriate personal protective equipment (PPE) such as gloves, goggles, and flame-resistant clothing when handling or using Hobbyweld 5.
- **Ventilation:** Ensure adequate ventilation in the work area when welding to prevent the accumulation of gases.
- **Safe Storage:** Store cylinders upright in a cool, dry, and well-ventilated area. Keep away from sources of heat, flames, or sparks.





- Transportation: Secure cylinders during transport to prevent tipping or damage.
- Leak Detection: Regularly check for leaks using an approved leak detection solution.

For the latest Hobbyweld 5 safety data sheet, please email our customer services team for a copy.

For the latest handling and storage guidelines, visit the BGCA website.

Performance Characteristics

- Weld Appearance: Produces smooth, flat welds with minimal spatter and clean edges
- Penetration: Provides consistent penetration even on thin gauge metals, reducing the risk of burn-through or distortion
- Weld Strength: Supports strong, ductile weld joints suitable for structural and aesthetic applications
- Spatter Control: The controlled addition of CO₂ and O₂ minimises spatter and reduces clean-up time
- User-Friendly: Designed with both the hobbyist and professional welder in mind, for easy setup and use

Quality Assurance

- Manufactured to strict quality standards to ensure purity and consistent composition
- Full traceability from production to delivery
- Regular quality audits and product testing

Environmental Considerations

- Non-flammable and non-toxic under normal conditions of use
- Release of gases should be controlled to minimise environmental impact
- Please recycle empty cylinders through an approved supplier or collection point

Customer Support

- Technical Assistance: Our technical team is available to help with product selection, usage guidance, and troubleshooting.
- Product Enquiries: For detailed product specifications, cylinder size options, or compatibility questions, please contact our customer services department.
- Safety Data Sheet: To receive the latest Hobbyweld 5 safety data sheet, please email our customer services.
- Storage Guidelines: For up-to-date handling and storage advice, visit the BGCA website.

Disclaimer

This datasheet is intended as a guide for typical usage and safety information regarding Hobbyweld 5. The manufacturer reserves the right to modify specifications without notice. Always consult with a qualified welding professional or supplier for advice specific to your application.





FIX AND WELD LTD

For further details, technical updates, or to download the latest product datasheet, please contact our customer services team.

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