

B-BRAZE

B-BRAZE range of products includes kits and professional tools (cylinders, torches, nozzles, pressure regulators etc.) for the following applications:

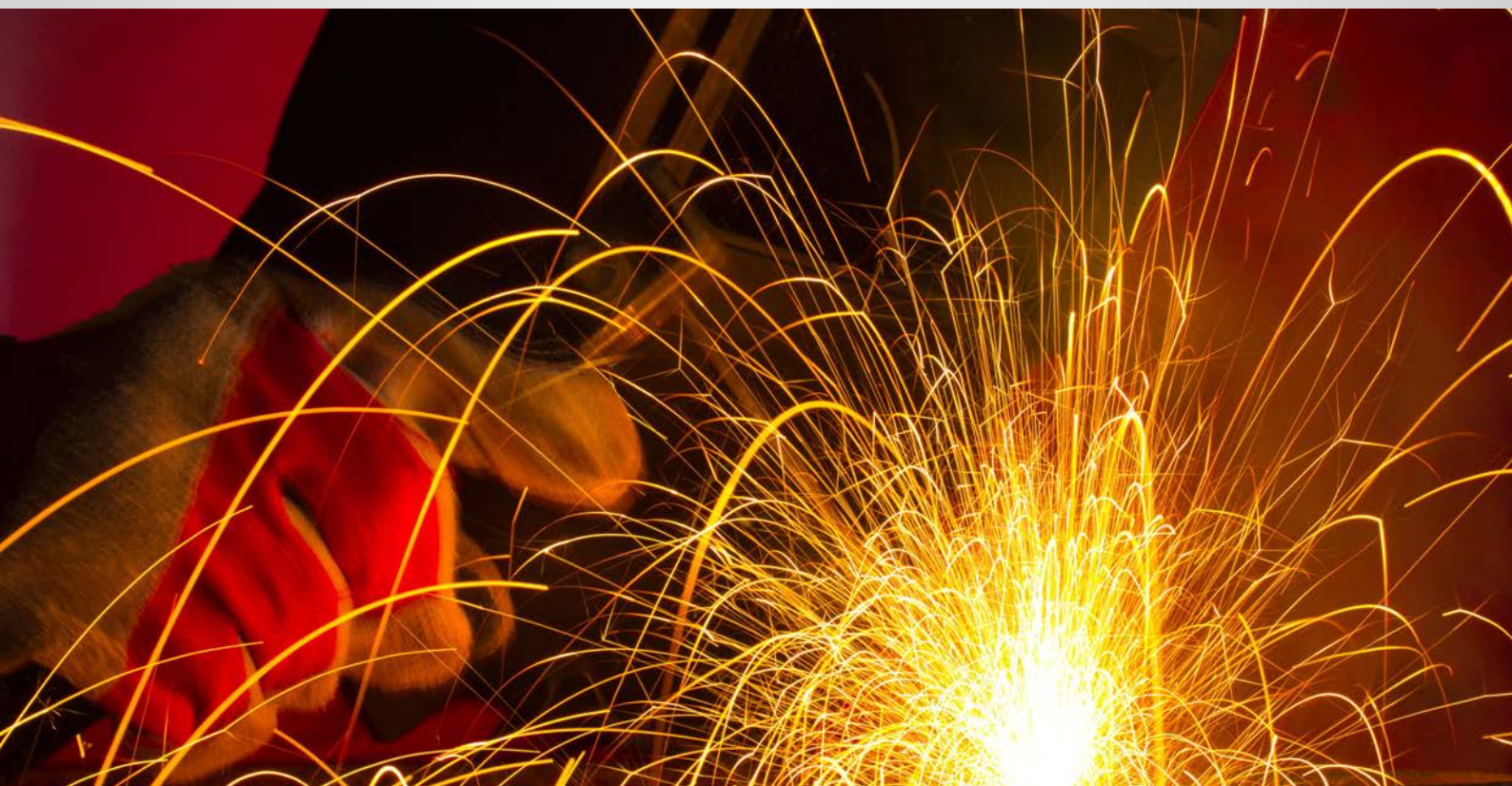
- ✓ Soft brazing up to 450 °C
- ✓ Hard brazing from 450 to 1100°C
- ✓ Autogenous welding over 1100°C



G-TEC

G-TEC range of products include non refillable, single use, cylinders, with a capacity of 0,95 lt., which are commonly used for welding, brazing, pressurizing of air conditioning and refrigeration systems, pipe purging with inert gas, aquariology. The G-TEC cylinders are made from carbon steel in full compliance with EN12205 standards, with a working pressure of 110 bar.

- ✓ G-Oxygen (O₂)
- ✓ G-Mix Argon/CO₂
- ✓ G-Mix Nitrogen/Hydrogen
- ✓ G-Nitrogen (N₂ - Nitrogen)
- ✓ G-Carbon Dioxide (CO₂)
- ✓ G-Argon

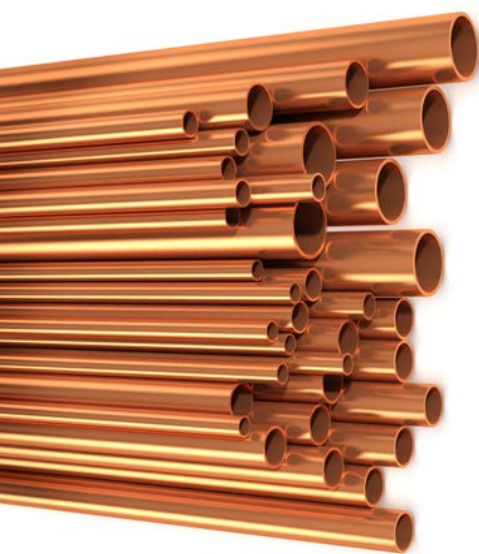
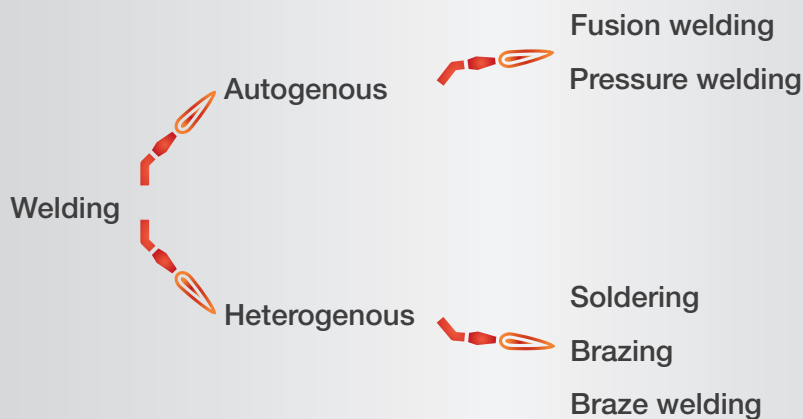


Welding

Welding is a process that permanently and seamlessly joins solid parts together. To weld two parts together is necessary to prepare the two joint's edges. Afterwards, the joint is heated at different temperatures according to the employed process.

Autogenous and heterogenous welding

Welding is said **Autogenous** when a joint is heated up to melt thus connecting the edge with the same joint's material or with an homogeneous filler material. If an heterogenous filler material with a lower melting point is melted on the joint once this is heated below its melting point, the welding is said **heterogenous**.



Brazing

Brazing is a metal-joining process in which two or more metal items are joined together by melting and flowing a filler metal into the joint, the filler metal having a lower melting point than the adjoining metal.

Brazing is employed to realize joint by only melting the filler metal, leaving intact the work pieces' edges.

- ▶ **Soldering**: uses filler material whose melting point is lower than 450°C and lower than adjoining metal's melting point.
- ▶ **Brazing**: uses filler material whose melting point is higher than 450°C and lower than adjoining metal's melting point.
- ▶ **Braze welding**: uses filler material whose melting point is higher than those used in brazing but still lower than adjoining metal's melting point.

In order to achieve a strong, technically good and flawless the melted metal must be cleared from slag and the melting area must be protected to prevent **oxidation**. therefore the welding should be performed in a low-oxygen (inert) ambient, which can be realized using a technical gas, also known as **protective gas**, around the melting area.

B-BRAZE line consists of tools and equipment for the following applications:



Soldering up to 450 °C.



Brazing from 450 to 1100°C.



Braze Welding beyond 1100°C.



MINIFLAME is a compact, powerful and efficient brazing kit and is especially suited for brazing operations in refrigeration, air conditioning, hydraulic, jewellery, and hobbies.

The kit is mounted on a solid metallic support provided with a handle to ease transportation. The support is sloping to avoid overturning and is provided with tank block devices.

The Kit includes:

- ▶ 1 **B-FLAME** cylinder - 1 liter - gas contents 385 gr. - EU 7/16" valve connector.
- ▶ 1 **G-OXYGEN** cylinder - 1 liter - 110 bar - M12x1 valve connector.
- ▶ 1 oxygen **G-NANO** adaptor with backstop valve.
- ▶ 1 gas **G-NANO** adaptor with backstop valve.
- ▶ Hose assemblies - 2 mt.
- ▶ Handle with control knobs and oxygen and gas backstop valves.
- ▶ Nozzle and tip of 160 lt/h.
- ▶ 4-pointed star with different measures which are lower than 160 lt/h - M6x1 connection.
- ▶ Goggles, multi-use wrench and igniter.

Flame temperature up to 2.900°C/5.250 °F.



 Packaging

Item Code	Description	UM
G-ABA-MINIFLAME-01	MINI Flame Kit	Pkg.

