

LASER®

Aluminium Repair System Brazing Rods



Description

For non-ferrous metals and all aluminium components

This product can repair most damage to aluminium parts quickly and effectively without using flux or chemicals.

Expensive down time can be reduced by repairing the component rather than replacing it.

Opportunities include

Motor Racing | bicycles | aluminium windows | aluminium boat hulls
air conditioning units | industrial Contents.

Contents

5 x Aluminium brazing rods, 1 x Tinning brush, 1 x DVD promotional video and demonstration.

Packaging

Card in polybag

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General Hand Tools

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NEW

Additional Information

Heat source required

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Over 260°C below melt point of aluminium

Use any heat source

Propane | Butane | Mapp | Blow torch

Brazes all aluminium alloys

including Zinc | Magnesium | Pot metal | Cast

Whether the holes are caused through corrosion or simple breakages, the repair will be stronger than the original component and will withstand high levels of torque.

Fill holes up to 3/8" diameter with this second generation brazing rod.

Repair threads in aluminium components by filling the hole with the brazing rod.

Insert a bolt into the hole and wait for it to set.

When cool the bolt can be removed with a simple socket and ratchet and the thread is cut as it is removed.

This product can repair any damage to aluminium parts quickly and effectively without using flux or chemicals.

Physical Properties

Tensile: 45,900 PSI	Therm. Exp: 15.2 x 10 ⁻⁶ in./in./F°
Elongation: 10% in 2 inches	Elec. Cond: 26 (% of copper std.)
Impact: 43 Ft. lbs (charpy)	S.P. Grav.: 6.6
Shear: 31,000 PSI	Weight: 0.24 lbs/cu. in.
Melting Point: 717° - 737°	Rockwell: 48

Precautions

- Always practice first on waste material
- When using lower heat gas torches always hold the flame of the torch at 90° to the metal to be heated
- For maximum efficiency hold the tip of the blue flame approximately 3-4cm away from the metal surface
- Welding or brazing can be dangerous – always use the appropriate safety equipment including eye protection.
- Remember that the thicker the material, the longer it takes to reach the proper temperature.
- On heavier work or to save time, you can use oxygen acetylene.

Always use a Rosebud tip or a neutral flame

- **Do not put the rod in the direct flame while with these brazing rods**

Instructions

Step 1:

Clean the area to be worked with a file, grinder, or wire brush. This '2nd Generation' brazing rod does not require a special brush to make it work!

Step 2:

Heat the work surface (not the brazing rod) until the work surface is hot enough to melt the rod when touched, just as you would if using solder.

Do not put the rod in the flame.

You must bring the temperature of the base metal up to the melting point of the HTS—2000 Flux less brazing rod.

Open the pores of the work surface with heat for the rod to penetrate the surface.

Step 3:

For threads and thin aluminium, tin the housing with the rod itself by scratching on the housing when the appropriate temperature is reached.

For all other uses, use a tinning brush to tin the area with HTS—2000 when the appropriate temperature is reached.

Build up for excellent results.

Step 4:

When the repair is completed, always allow to cool naturally.

Propane works well on most weights up to 1/4 inch.

For thicker work use MAPP gas.

Note: Remember that the thicker the material, the longer it takes to reach the proper temperature.

On heavier work or to save time, you can use oxygen acetylene.

Always use a Rosebud tip or a neutral flame with oxygen acetylene.

Do not put the rod in the direct flame whilst brazing