ARCTEC® 430 MAGNESIUM

a quality welding alloy

GENERAL CHARACTERISTICS:

ARCTEC® 430 is a magnesium alloy for use on all brazeable grades of magnesium. Used for joining extruded shapes, sheets and magnesium castings. The properties of the deposit are equal to that of the base metal in color and strength.

APPLICATIONS:

ARCTEC® 430 is used for brazing of all brazeable grades of magnesium. Used for fabrication and repair, build up of worn parts and missing sections, filling porosity in castings and repairing cracks and breaks. It can be used with either oxy-acetylene or TIG torch.

WELDING PROCEDURE:

Clean the weld zone free from dirt, grease and oxides. Heavy sections should be beveled to form a 70 to 90° V. Allow joint clearances of .004" to .010". With oxy-acetylene procedure use a neutral flame. Keep torch in constant motion while heating weld area in order to avoid melt through. Dip heated end of rod in Arctec # 75 Flux and transfer to joint area. Continue heating until flux liquefies and then melt a drop of alloy from the rod. Continue this process until the joint is filled. To protect the base material be sure extra flux is added during the process. After completion of the weld allow to cool slowly, then rinse the excess flux off using warm water and a stiff brush.

MECHANICAL PROPERTIES:

Tensile Strength	Up to 35,000 psi (241 Mpa)

OPERATING PARAMETERS:

WELDING PROCESS: OFW-TB or GTAW
Use neutral flame for brazing.

Melting Range:	1050-1150°F (566-621°C)

Available diameters:	Inch.	1/8"
	mm.	3.25

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