



AEROPAK®

THERMOCOUPLE & CONDUCTOR CABLE

EXPOSING WIRE — Wire can be exposed by removing the sheath in a lathe. The cable (AerOpak®) is chucked in the headstock with length of about 10 x diameter exposed. Use a small tool, high speed, and light cuts. Wire can also be exposed by using a saw or file or sheath stripper. A complete cut through the tube should be made about 1/4 inch from the end. The cut portion is then squeezed until the MgO powder drops out leaving the sheath loose. This process can be repeated until the desired length of wire is exposed. Commercial sheath strippers are available.

STORAGE SEALING — Material supplied has been sealed at exposed ends to prevent moisture absorption. When cutting special lengths, the exposed ends should be coated with a plastic varnish by either dip or brush method or other suitable technique. We recommend using Dow Corning Silicone Resin I-2577 for a temporary seal and welding if a permanent moisture block is desired. Remove moisture from insulation before resealing.

ANNEALING — Anneal in reducing or neutral atmosphere to relieve cold work added by forming or bending. Follow standard procedure for annealing stainless steel unless enclosed wires are of a material not compatible with this procedure.

BENDING — Bending can be accomplished with ordinary tube benders. Material can be bent to a minimum radius of 2 sheath diameters. It is advisable to make sure that the region of bending is annealed after forming. Repeated flexing at one point will result in work hardening and eventual fracture of sheath.

WELDING — Any form of welding may be performed upon the sheath without destroying the insulation. Avoid welding on sheath when adjacent to low temperature materials. Remove moisture before welding. If moisture is not removed and material is subjected to high temperature, rupture of the sheath may occur from the steam generated.

HIGH TEMPERATURE SEALING — ARi has developed a patented sealant known as AerOseal® to prevent moisture absorption by the ceramic. This seal is effective over the temperature range of -240 to +420°C (-400 to +788°F). It can withstand thermal shock from 420°C (788°F) to -185°C (-300°F) in 2 seconds. Exposure to temperatures above 420°C (788°F) will cause the seal to deteriorate without affecting insulation resistance properties.

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