

TECHNICAL DATA SHEET

Polymer Resin

Description

A special polymer resin based material to act as a tube filling media for tube bending applications. The resin can be used to replace fusible alloys such as Cerrobend, Indalloy, Ostalloy and others. It has advantages in having a low density (~1), low melting point of 70°C (158F), can be reused many times, and residues can be removed by a simple water rinse.

Benefits

- Not hazard labelled - Proven safety for environmental and operator concerns.
- Bio-degradable lubricant
- Low fuming
- Can be welded through without removal.
- Safer operation.
- Can be reused many times no viscosity or performance drift
- Can be used in small diameter and large diameter tubes.
- Very low odour

Typical Physical Properties

| | |
|---------------------|--|
| Appearance | Almost water white flakes |
| Specific Gravity | ~1 @ 20°C |
| Melting temperature | ~70°C |
| Solubility | Water Hydrocarbons Complete <0.1% |
| Usage Concentration | As supplied |

Application Method

The resin should be heated to about 70DegC to melt it, excessive heat should be avoided as this can cause localised burning of the resin and shortens its life. The Resin can then be poured into tubes and allowed to set; if the Resin is only heated to 70DegC then the setting time is quicker.

The Resin should be allowed to fully cool in the tubes before bending, as if it doesn't fully harden the support offered will be less. This can take some time for large diameter tubes.

The Resin can be melted out of components after bending using a hot air gun on the surface of the tube, and any residues left in the tube can be washed out with plain water if required. The residue will not however affect welding processes.

The resin can be reused repeatedly without adverse effects on the resin.