

TECHNICAL DATA SHEET

Resin WS8 / WS10

Description

A special polymer resin based material with Kevlar fibres (WS10) to act as a higher strength tube filling media for larger diameter 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
- WS10 Designed to give extra support in large diameter tubes (>3").
- Very low odour



Typical Physical Properties

	WS8	WS10	
Appearance	Water white flake	Almost water white flakes with yellow Kevlar fibres	
Specific Gravity	~1 @ 20°C	~1 @ 20°C	
Melting temperature	~70°C	~70°C	
Solubility	Water Hydrocarbons	Complete <0.1%	Complete <0.1%
Usage Concentration	As supplied	As supplied	

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Application Method

The Resin WS10 is supplied in 2 parts, the base resin (WS8) and a pre-weighed sachet of Kevlar fibres.

For first use the Resin should be melted and the fibres added and stirred in well, when the resin is molten, to give a well dispersed fibre in resin mixture, this is easy to achieve.

Resin WS10 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. We would often recommend overnight cooling.

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 WS8 / WS10 can be reused repeatedly without adverse effects on the resin.

If dirty, particularly oily, tubing is used then the life of the resin will be shortened as the presence of oil can affect the crystal structure of the solid resin and therefore its strength. If oily tube is supplied by the tube supplier we recommend a degreasing process prior to the use of the resin. We can supply a range of degreasing solutions for this.

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