



## UCON Fluids and Lubricants

### UCON Solder Assist Fluid 10

#### Product Description

UCON™ Solder Assist Fluid 10 is a water soluble polyalkylene glycol-based fluid formulated with an additive package to improve the product's stability at high temperatures and to raise its flash point. It is designed for use as a component in solder reflow fluids, fluxes, fusing fluids, and other process fluids where high temperature stability and good water washability are critical.

#### Product Features

- Good Thermal Stability
- High Flash Point
- Excellent Water Washability
- Low Foam Tendency
- Low Odor
- High Product Clarity

UCON Solder Assist Fluid 10 has been found particularly useful in various heat transfer and blanketing applications. It is used as a heat transfer media to fuse Sn-Pb electroplate into solder-coat during fabrication and to "reflow" solder-coat and solder perform during assembly. As a flux component, Solder Assist Fluid 10 aids in heat transfer and protects the solder from oxidizing. It is also used as a hot liquid leveling fluid to smooth colder coatings and clear plated through-holes, and as a blanketing fluid to reduce dross formation on the liquid solder.

#### Typical Physical Properties

Property	SAF-10
Viscosity, cSt at 40°C	280
Specific Gravity, 20/20°C	1.088
Density, lbs/gal, 68°F (g/cc, 20°C)	9.06 (1.086)
Pour Point, °F (°C)	5 (-15)
Flash Point	
closed cup, °F (°C)	350 (177)
open cup, °F (°C)	605 (318)
Surface Tension, dynes/cm	38.7
Water Solubility, 25°C	Complete <sup>(1)</sup>
Cloud Point, °F (°C) <sup>(2)</sup>	185 (85)

<sup>(1)</sup>Product contains small amounts of water-insoluble additives which are present to improve thermal stability.

<sup>(2)</sup>Temperature above which a 1% aqueous solution of the product separates.

## **Product Stewardship**

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.

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