

UCA-3(HT)

High Temperature Ultrasound Fluid

General

UCA-3(HT) is a colourless product with the consistency of grease, consisting of a blend of silicone and organic compounds, corrosion inhibitors and thickening agents. It is specially formulated to be used at high temperatures, from 40 °C up to 250 °C

UCA-3(HT) does not exhibit thixotropic properties but its physical form ensures it stays in position when applied and does not drip or run from the part under test. The excellent wetting properties ensure free and even movement of ultrasonic probes over both rough and smooth surfaces with immediate and excellent acoustic transmission.

Due to the presence of special organic corrosion inhibitors, the product will not corrode most metals. The product is low in sulphur and halogens and essentially ash free on ignition (see Typical Properties below).

UCA-3(HT) is oil- and silicone-based, it contains no powerful solvents and is therefore without effect on painted surfaces, plastics, synthetic or natural rubbers.

UCA-3(HT) contains no known toxic ingredient and the effect on skin is negligible. The presence of surface-active agents could exert a slight defatting effect on persistent or prolonged contact; this may be avoided by the application of a barrier cream.

Method of Use

UCA-3(HT) is normally applied by hand or with a soft bristle brush. UCA-3(HT) can be removed with alcohol, acetone or a similar solvent.

UCA-3(HT) is used as supplied.

Typical Properties (not a specification)

Density of UCA-3(HT):	approx. 1 g/cm ³
Velocity of sound in UCA-3(HT):	1675 metres/second

Sulphur:	<50 ppm
Chlorine:	<50 ppm
Fluorine:	<10 ppm
Bromine:	<10ppm
Ash:	<0.1%

Analysis according to ASME Boiler Code 1983 Edition, Section 5.

Sulphur determined by ASTM D-129 or allowed alternative.

Halogens determined by ASTM 0-1598.

Storage

Storage Temperature: 5 – 40 °C
Protect against frost.

Safety guidance

Before operating the process described it is important that this complete document, together with any relevant Safety Data sheets, be read and understood.

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