

Glycerin as an Ultrasonic Couplant

Glycerin can be used as a general purpose couplant. The viscosity and acoustic impedance are desirable for rough surfaces and highly attenuating materials. Glycerin has an acoustic impedance of 2.42×10^5 gm-cm²/sec.

Glycerin is also suitable for use in high frequency delay line inspections, high frequency delay line thickness gaging and contact transducer testing on reference standards.

PRODUCT DESCRIPTION

Echo Ultrasonics is approved by GE as a supplier of Glycerol batch #205 for the inspection of CFM56-7B engine fan blades in accordance with SB72-1033. Available in 16-oz. / 500 ml bottles.

Packaged from USP Glycerin, 99+%

High acoustic impedance

Medium viscosity fluid

Will not harden on equipment

Compatible with plastics

SAFETY

- Non-toxic, non-irritating
- Contains no heavy metals, harsh surfactants, glycol ethers, nitrites, silicones, dyes or fragrances.



PRODUCT SPECIFICATIONS

Operating Range:

65° to 500° F (18° to 260° C)

- **Boiling Point:** 555° F (290° C)
- **Freezing Point:** 64° F (18° C)
- **Total Halogens:** Less than 50 ppm
- **Sulfur:** Less than 50 ppm

PACKAGING

16-oz. / 500 ml bottles, GLY-16 batch #205

Carton of twelve 4-oz. bottles

1 gallon (US) / 3.8 liter rigid plastic container

5 gallon (US) / 19 liter rigid plastic container

All packaging is approved to United Nations shipping standards for air shipment. Glycerin can be corrosive to carbon steel and aluminum and can reduce the sensitivity of subsequent dye and fluorescent penetrant inspections.

High purity Glycerin (98.2% or higher) increases in viscosity with decreasing temperature. To pump glycerin, store above 65° F / 18° C.

SDS available at www.echoultrasonics.com