

High Z

Ultrasonic Couplant

High Z is a high acoustic impedance couplants to reduce surface noise and improve coupling performance on curved, rough, pitted and corroded surfaces.

This couplant will often facilitate flaw inspection and thickness gauging in situations where no other couplant will work. High Z works on surfaces other couplants won't, such as curved, pitted, heavily corroded or rough surfaces, including concrete.

High Z comes in two different viscosities, High Z LV which is a thin, no-flow gel and High Z HV which is an extremely thick gel-paste.

FEATURES

- Water-washable for easy removal
- Highest acoustic performance
- Lower surface noise for superior coupling performance on rough/curved surfaces
- Good corrosion inhibition
- Moisture resistant
- Long-term coupling

SPECIFICATION COMPLIANCE

- API
- ASME
- AWS

APPLICATIONS

Defect location: subsurface

Ideal for:

- Flaw detection
- Thickness gauging
- Angle beam inspection
- Long-term coupling
- Rough/pitted or corroded surfaces
- Curved surfaces
- Concrete
- Ceramic
- Brick

PROPERTIES

Appearance	Clear, thick paste
Color	Colorless to straw yellow
Viscosity	High Z LV: thin, no-flow gel High Z HV: very thick gel-paste
Silicone	No
Glycerin	Yes
Propylene Glycol	No
Water Soluble	Yes

PACKAGING**High Z LV**

4 fl oz / 118 mL tube 58-T04

High Z HV

4 fl oz / 118 mL tube 59-T04

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at www.magnaflux.com.

USE RECOMMENDATIONS

NDT Method	Ultrasonic Testing
Required Equipment	UT equipment, transducer
Temperature Range*	0 to 200°F / -18 to 93°C
Compatibility	Most composites and metals

* Couplant integrity and acoustic performance may decline beyond these temperature limits.

INSTRUCTIONS FOR USE

Apply a small amount of couplant to the transducer or inspection area before measurement.

REMOVAL

Remove with water rinse (warm/hot water recommended).

STORAGE

Store prepared couplant in an airtight container. Store out of direct sunlight. Keep container closed when not in use. Never put unused couplant back into the storage container. Refer to Safety Data Sheet for additional storage instructions.