

## UT-X<sup>®</sup> POWDER ULTRASONIC COUPLANT

### GENERAL DESCRIPTION

UT-X Powder is a cost effective environmentally benign couplant concentrate useful for flaw detection and thickness gaging applications. Mixed with water at the inspection site, its compact and lightweight packets are easy to transport or store for unanticipated shortages as emergency couplant. UT-X Powder retains viscosity on salt caked boiler tubes, corroded pipe, structural steel, steel billets, plate and welds.

### TEMPERATURE OPERATING RANGE

32° to 120°F (0° to 49°C) in standard tap water. Can be winterized to -20°F (-29°C).

### BENEFITS

- Environmentally benign formula
- Minimal air bubbles (two packet system permits de-airing after polymer addition)
- Fast, lump-free mixing
- Concentrated to reduce shipping cost and storage space requirements
- No dyes, fragrance or glycerine
- Low skin irritation potential

### TYPICAL PROPERTIES (at ambient temperature)

Viscosity	Variable*
pH	~9 (when mixed with municipal water)
Total Halogens	<50 ppm
Sulfur	<50 ppm

\* Mix UT-X Powder with water to obtain viscosity required for application.

### SAFETY

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

**REMOVAL**

The polymer (thickening agent) in UT-X Powder will form a film if allowed to dry on the part. If complete removal of couplant is required, do so before the couplant has dried, with a water rinse or a water and brushing combination. If allowed to dry, and a film forms, it can be removed by pressure washing, immersing the part in water until the film rehydrates and can be washed or brushed off, or wire brushing.

**ACOUSTIC TRANSMISSION**

Optimal transmission requires that an ultrasonic couplant have no air bubbles that can reflect, scatter and attenuate sound waves. Magnaflux's unique processing eliminates couplant air bubbles.

**CORROSION INHIBITION**

UT-X Powder contains a corrosion inhibitor for ferrous metals with a relative effectiveness rating of 40.

**ENVIRONMENTAL AWARENESS**

Magnaflux environmentally benign couplants are designed to minimize impact on the environment. UT-X Powder contains biodegradable materials, safe for disposal. The likelihood of skin irritation has been reduced through the use of cosmetic grade ingredients. Environmentally benign couplants are designed specifically for applications where couplant may be removed by weather, or could come into contact with animals, humans, and waterways.

**PACKAGING**

1 Gal. (4 Liter) Packet, case of 10

5 Gal. (18.9 Liter) Packet, case of 10