

1. PROTECTIVE COATINGS

Nanocomposite coatings designed to enhance wear and abrasion resistance, UV-protection, and other functional properties.

➤ Self-healing Coatings

- **“Mend-M”** self-healing clearcoat technology provides a durable, long lasting finish for metal substrates.
- **“Mend-MW”** self-healing polyurethane dispersion is made from polyurethane matrix. Coatings made from this dispersion exhibit self-healing properties. An added advantage of this waterborne dispersion is that it is solvent free with zero VOC.
- **“Mend-W”** self healing coating provides a long lasting, low maintenance finish for wood. Self-healing functionality allows for a high degree of scratch repair and gloss recovery, even in repeatedly damaged areas.



➤ Abrasion Resistance Coatings

- **“*Hardcoat SR-100*”** fulfills the need for abrasion or scratch resistant coatings on plastic substrates.
- It is a liquid and can be applied on surfaces using standard coating processes, including dip-coating, spray coating and spin-coating.
- Another type of abrasion resistance coating i.e. **“*Hardcoat UV-100*”** provides both scratch resistance and UV protection to plastic substrates.
- UV radiation at wavelengths below 350nm is cut to almost 100% with the coating, leading to improved weatherability and suppression of discoloration of the substrate.



➤ Anticorrosion Coatings

- **“PT-15”** makes an excellent paint base for corrosion protection of Mg-Al magnesium alloys, such as the most common AZ91 alloys.
- Pretreatment of magnesium alloys with **PT-15** results in a chemical conversion coating that is nano-structured and is crack-free.
- **“PT-30”** is a chromate-free, environmentally benign chemical pretreatment bath for developing conversion coatings for copper alloys.
- The coating provides corrosion protection of copper alloys in recycled water.



➤ **Coating Additives**

- **“PC-10”** is easily incorporated into commercial coating formulations.
- **Wear resistance is dramatically improved with only a small additive loading.**
- **Improve the abrasion resistance and scratch resistance of the coatings.**
- **Used in a number of different coating applications, including automobiles, aircraft, cosmetics, floors, septic tanks, structural steels, and buildings.**
- **“PC-20”** can be used in a wide range of applications including specialty fabrics, medical devices, and a wide range of metal coatings.
- **Silicone-based coatings for thermal and barrier applications, as well as silicone-based adhesives.**

➤ **Thermal Spray Coating**

- **“TS-10”** is "multimodal" thermal spray coating powders for wear and erosion resistance.

2. HEAT TRANSFER FLUIDS

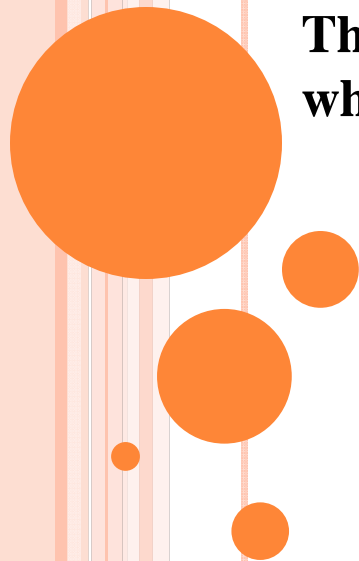
Heat transfer fluids, engineered with nanoscale particles for demanding cooling applications.

➤ **ThermoDon-1**

ThermoDon-1 is an efficient heat transfer fluid for applications where water is used as coolant.

➤ **ThermoDon-2**

ThermoDon-2 is an efficient heat transfer fluid for applications where oil is used as coolant.





Thank you

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Designed to deliver the purest...

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