Technical Data Sheet

NANOMYTE® PT-100

PRODUCT DESCRIPTION

NANOMYTE® PT-100 is a chromium-free conversion coating formulated for protecting zinc plated and galvanized steel from corrosion before applying NANOMYTE® TC-5001 or SR-500EC topcoat. Application is typically done by immersion or dipping parts into a bath of PT-100 solution.

PHYSICAL CHARACTERISTICS

Physical State:	Liquid
Color:	Pale yellow / orange
Odor:	Acid-like odor
pH:	3 to 4
Boiling Point:	~100 °C
Specific Gravity:	~1.2
Density (25 °C):	No Data Available
Viscosity (25 °C):	No Data Available
Solubility in Water:	Very Soluble
Percent VOCs by weight:	N/A

EQUIPMENT, CHEMICALS, & MATERIALS REQUIRED

1. PT-100 (use as-is; shake well or agitate before use)
2. Glass or plastic processing tanks
3. Source of Deionized (DI) water
4. Drying holders
5. If the operator will be handling the parts after treatment, clean latex / nitrile gloves should be worn and metal parts should be handled with care as to not damage the coating.

OPERATING PARAMETERS

The following process sequence should be conducted at room temperature (~20 – 30 °C / 68 – 85 °F):

I. Cleaning
Metal parts to be treated with the processing solution must be free from grease, oil and other foreign matter before applying treatment.

II. Treatment
Immerse metal parts in PT-100 solution for 10 seconds to 2 minutes depending on the required thickness.

III. Water Rinsing
Rinse with DI water (preferred to remove any excess solution).

IV. Drying
Dry at room temperature for 15 – 30 minutes, or using a blow dryer until dry. Care should be taken not to damage the conversion coating.

STORAGE & HANDLING

Conditions for Safe Storage
Keep container tightly sealed and store at room temperature (25 °C / 77 °F). Protect from extreme temperature variations. The solution should not be allowed to freeze or be heated above 60 °C / 140 °F. Avoid contamination with incompatible materials.

Precautions for Safe Handling
Appropriate personal protective equipment should be used at all times. Provide good ventilation or extraction. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapor or mist.

Refer to MSDS for further information.

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