
PRODUCT DESCRIPTION

NANOMYTE® PT-60C is a chromium-free conversion coating formulated for protecting magnesium alloys from corrosion either as a standalone treatment or as a pretreatment before painting, powder coating, or e-coating. Application is typically done by immersion or dipping parts into a bath of PT-60C solution. Touch-ups or repairs may be done by brushing the solution on selected areas of a magnesium part.

PT-60C is an electrically conducting coating that also provides excellent corrosion protection.

PHYSICAL CHARACTERISTICS

Form:	Liquid
Color:	Dark green, almost black
Odor:	Acid-like odor
pH:	3 to 4
Boiling Point:	No Data Available
Specific Gravity:	No Data Available
Density (25 °C):	No Data Available
Viscosity (25 °C):	No Data Available
Solubility in Water:	Dispersible
Percent VOCs by weight:	N/A

EQUIPMENT, CHEMICALS, & MATERIALS REQUIRED

1. PT-60C (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 (for AZ31B Mg Alloy)

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

Cleaning:

1. Metal parts to be treated with the processing solution must be free from grease, oil and other foreign matter before applying treatment.
2. Metal parts can be deoxidized by immersing in a 2% H₂SO₄ aqueous solution for 20 seconds.

Water Rinsing:

3. Rinse with DI water to remove acid completely.

Treatment:

4. Immerse metal parts in PT-60C solution for 20 seconds.

Water Rinsing (optional):

5. Rinse by immersing the metal part in DI water in a container for 10 seconds without touching the conversion coating. Do not wipe or rub the coated surface.

Drying:

6. Dry at room temperature for 30 – 60 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.