

Dynasytan® TRIAMO

Triamino-functional propyltrimethoxysilane

Technical data

| Properties and test methods | Value | Unit | Method |
|----------------------------------|------------------|-------------------|-----------|
| Density (20 °C/ 68 °F) | approx. 1.03 | g/cm ³ | DIN 51757 |
| Refractive index n(20,D) | approx. 1.46 | - | DIN 51423 |
| Viscosity (20 °C/ 68 °F) | approx. 20 | mPa's / cSt | DIN 53015 |
| Boiling point (2.7 hPa / 2 torr) | approx. 114-168 | °C/ °F | DIN 51356 |
| Flash point | approx. 137/ 302 | °C/ °F | EN 22719 |

Registrations

Dynasytan® TRIAMO

| | |
|----------------------|------------|
| EINECS/ELINCS (EU): | Yes |
| AICS (Australia): | Yes |
| DSL/NDSL (Canada): | Yes |
| PICCS (Philippines): | Yes |
| TSCA (USA): | Yes |
| IECS (P.R. China): | Yes |
| TCCL (South Korea): | Yes |
| Switzerland | Yes |
| ECS (Taiwan) | Yes |
| REACH (Europe) | Registered |

Dynasytan® TRIAMO is an organofunctional silane possessing three reactive amino groups and a hydrolyzable trimethoxysilyl group.

The dual nature of its reactivity allows Dynasytan® TRIAMO to bind chemically to both inorganic materials (e.g. glass, metals, fillers) and organic polymers (e.g. thermosets, thermoplastics, elastomers) thus functioning as an adhesion promoter and surface modifier. Dynasytan® TRIAMO is a clear, light to dark yellow liquid with a slight amine-like odor. It is soluble in alcohols, ketones, esters and aliphatic and aromatic hydrocarbon solvents.

Safety and handling

Before considering the use of Dynasytan® products please read its Safety Data sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Safety Data Sheet is available after registration on our website www.dynasytan.com or upon request from your local representative, customer service or from Evonik Resource Efficiency GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging, storage and shelf life

Dynasytan® TRIAMO is supplied in 25 and 200 kg drums.

In unopened container Dynasytan® TRIAMO has a shelf life of min. 12 months from delivery.

Properties and applications

Dynasylan® TRIAMO is used in applications such as:

- PVC-pastisols as an additive (ca. 0.5-1%) to improve adhesion between PVC and metals
- Foundry resins:

Important product effects that can be achieved through the use of Dynasylan® TRIAMO include:

- improved adhesion
- improved moisture and corrosion resistance

Reactivity

In the presence of water, the methoxy (Si-OCH₃) groups of Dynasylan® TRIAMO hydrolyze to form reactive silanol (Si-OH) groups which can bond to a variety of inorganic substrates.

The amine groups of Dynasylan® TRIAMO can react with a suitable polymer.

Dynasylan® TRIAMO may be used with PVC and silicones.

Processing

Dynasylan® TRIAMO may be added to polymer matrix as an additive.

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