



Tetraethyl silicate ETS-28

Characteristics

A mixture of polyethoxy siloxanes with linear structure.

Properties

- easily hydrolyzed by atmospheric moisture;
- dries quickly;
- creates a solid silicone film;
- soluble in organic solvents;
- has good astringent and fastening properties.

Applications

- In the metallurgical industry - as a binder in the manufacture of ceramic molds for precision casting (lost wax method), rods, as a component of non-stick paints.
- In the textile industry - for non-shrink finishing carpets and woolen fabrics, giving them resistance to decay.
- In the glass industry - for the enlightenment of optical glasses, coating cylinders of bulbs with the light-scattering layer.
- In construction - to create a hydrophobic materials and painted surfaces, for impregnation of concrete to reduce the porosity and increase the acid and frost resistance, for production of silicate and acid-resistant cement.
- In the paint industry – as the additive for thermal and water-resistant quick-drying coatings with lasting shine; to reduce the time of oil oxidation in the preparation of drying oil (added when heating oil in the amount of 3-5% by weight) as the component of non-stick paints.
- In the gas-oil industry - as a main component of grouting fluids.

- In the ceramic industry - as a binder in the manufacture of ceramic materials resistant to aggressive media and having the mechanical strength, high heat resistance and dielectric properties, for production of heat resistant materials which can withstand the temperatures up to + 1700°C and loads more than 120 kg/cm².

Storage

Store in a sealed original container at a temperature from -40°C to +30°C.

Store in a cool, dry, well-ventilated place, away from areas with a risk of fire and contamination with strong oxidants, alkalis and inorganic acids. Protected from moisture and direct sunlight.

Guaranteed shelf life is 1 year.

Storage over the date specified on the label does not necessarily mean the product is unusable. In case if store more please check the properties of product before use.

Packing

- polymer canisters 25 dm³;
- barrels combined (steel-polyethylene) of 200 dm³;
- polyethylene barrels of 220 dm³;
- steel barrels of 200 dm³;
- special polymer containers up to 1 m³.

Safety instructions

The product is flammable; please follow fire safety instructions during work.

Please see comprehensive instructions in the relevant safety data sheet for the product that can be provided upon request.

Product specification

NAME OF PARAMETER AND UNIT OF MEASURE	STANDARD
Appearance	Clear or opalescent liquid
Mass content of silicon dioxide, %	28,0 – 29,5
Density at (20±0,5)°C, g/cm ³	0,92 – 0,98
Mass content of ethanol, %, max	1,5
Mass content of tetraethoxysilane, %	90 – 100
Kinematic Viscosity, mPa.s	0,72 – 0,78

To obtain more information please contact your nearest representative office of Silkor Ltd.

LIMITED WARRANTY INFORMATION, PLEASE READ CAREFULLY:

The information contained herein is accurate, but it does not relieve the customer from the control of each batch of products supplied. Since the conditions and methods of use of our products are beyond our control, the recommendations contained in this document should be updated by the client providing preliminary tests. Recommendations for use should not be construed as a guarantee of product suitability for a particular purpose.

Silkor Ltd only guarantees that the product meets its specifications in effect at the time of delivery.