

# POLYSIL 8X

## Colloidal silica

Polysil 8X is an alkaline, aqueous dispersion of colloidal silica with approximately 8% solids by weight, Mean Particle Size is of 5.1nm, pH-10.09, Surface Area 598 m<sup>2</sup>/g, Density 1.04 g/cc.

The dispersion is sodium-stabilized, and its amorphous silica particles carry a negative surface charge. These particles are discrete, slightly irregular in shape, and have a narrow particle size distribution. With a translucent liquid appearance and slightly higher viscosity than water, Polysil 8X serves as a versatile solution for various industrial applications. Designed for global distribution, this product exemplifies Polytrachem's commitment to quality and innovation.

|                                  |  |
|----------------------------------|--|
| % solids                         | 8%   |
| Mean Particle Size (nm)          | 5.1  |
| pH                               | 10.09  |
| Surface Area (m <sup>2</sup> /g) | 598  |
| Density (g/cc)                   | 1.04   |
| Applications                     | Beverage Clarification, Water treatment,<br>Concrete &<br>Mortar, Protective Coating |
| Functions                        | Densifier for cement/concrete  |

## Storage

Polysil 8X should be transported and stored at temperatures ranging from 5-35°C (40-95°F). Freezing the silica dispersion will result in irreversible precipitation of the silica. For bulk storage, tanks should be sealed and made from materials such as plastic, fiberglass-reinforced plastic, or stainless steel. Packaged goods in translucent containers should be kept away from direct sunlight or bright light. When stored under the recommended conditions, Polysil 8X has a shelf life of 12 months from the date of production.

## Packaging and transport

Polysil 8X is available in bulk, 1000-liter IBCs, and 220-liter plastic drums

## Safety and Handling

Before using Polysil 8X, consult the relevant Material Safety Data Sheet. Polysil 8X is an aqueous dispersion of amorphous silica and is considered mildly irritating but not harmful. As it may cause dryness of the skin, protective gloves should be worn during handling. If skin contact occurs, rinse thoroughly with water. Safety glasses are recommended to protect against potential splashes. In case of eye contact, flush with plenty of water and seek medical attention if needed.

## Certifications

ISO 9001 and 14001 certified.

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