Technical Data Sheet

ChangFu® CS23UV
Colloidal silica for UV Systems

Description

ChangFu® CS23UV is a group of colloidal silica designed specifically for UV systems. These products are either surface-modified to participate in UV curing reactions or dispersed in UV monomers, offering superior compatibility with UV resins, and significantly enhancing the hardness and wear-resistance of UV coatings.

Features & Benefits

Wide ranging surface area and narrow particle size distribution
Has high dispersibility, excellent wear resistance, and good transparency
High purity. Content of most impurities can be controlled at ppb level
High stability, with a stability period of over one year under different conditions

Applications

Used as fillers for UV paints, inks, and coatings, enhancing the adhesion and wear resistance of coatings, and increasing the fluidity and dispersibility of inks.

Typical Properties

Description	Surface modified colloidal silica		Colloidal silica dispersed in UV monomers		
Appearance	Light blue transparent liquid		Light blue transparent liquid		
Product No.	ChangFu® CS23UV-E	ChangFu® CS23UV-IPA	ChangFu® CS23UV-MA	ChangFu® CS23UV-DA	ChangFu® CS23UV-TA
Solvent	Ethanol	Isopropanol	Methyl Methacrylate	1,6-Hexanediol Diacrylate	Trimethylolpropane Triacrylate
Particle Size, nm	15±5	15±5	15±5	15±5	15±5
SiO2, wt%	30±0.5	30±0.5	30±0.5	30±0.5	30±0.5

*More grades are available, with different solvent types, particle sizes, concentrations, and PH values.

Package

Offered in 25L pails and 200L drums.
Custom packaging is available.

Storage

Stored in a cool, well-ventilated place.
Keep container tightly closed.

Transportation

See the corresponding Safety Data Sheet.