

# HIND CS 40

WATER SOLUBLE NANO SILICA COMPOUND

## DESCRIPTION

**HIND CS 40** is a single-component injection system utilizing a nanometric suspension of discrete particles. The product's hydrophilic properties facilitate strong adhesion to wet surfaces. Notably, **HIND CS 40** is formulated as a non-foaming solution, free from solvents and toxic constituents.

## USES

- Pre-injection grouting for underground applications
- Post-injection applications
- Ground improvement
- Water ingress reduction
- Slope stabilization

## ADVANTAGES:

- Extremely low viscosity for efficient penetration
- Non-aggressive formulation ensures enhanced working safety
- Environmentally friendly with no adverse impact
- Excellent bonding properties to wet surfaces
- Compatibility with standard cementitious grout mixing and pumping equipment

## SPECIFICATION & CHARACTERISTICS : HIND CS 40

Appearance	Clear, free of gelatinous and foreign matter
Viscosity at 25°C	20 mPa.s / <30 sec
Density at 25°C	1.27-1.29g/cm <sup>3</sup>
pH at 25°C	9.5 to 10.5
SiO <sub>2</sub> concentration	40±1 (%)
Na <sub>2</sub> O content	0.2-0.3 (%)
Average particle diameter	>10 nm
Specific surface area	220-180 m <sup>2</sup> /g

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## APPLICATION:

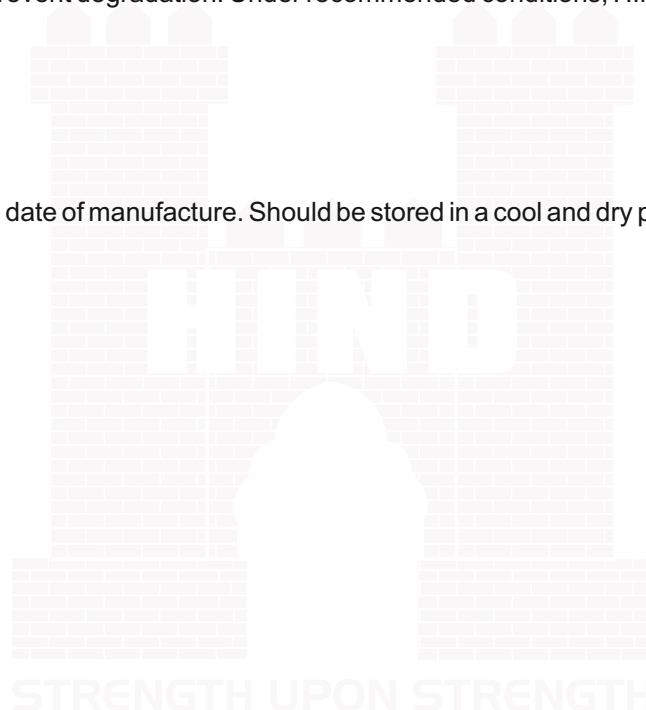
**HIND CS 40**, a colloidal silica binder, is the industry's preferred choice for precision investment casting. It provides a safe, economical, and user-friendly slurry component that excels as both primary and backup slurry. The system's exceptional stability and chemical inertness enable the formation of long-lasting ceramic slurries with a wide range of refractory materials. This versatility allows **HIND CS 40** to be used in creating ceramic shells for casting various metal alloys.

## PACKING AND STORAGE:

**HIND CS 40** is available in 250 kg barrels, and 1-ton IBC containers. To maintain product integrity, store in a cool, dry place between 5°C and 35°C. Avoid exposure to temperatures below 0°C, as this may cause gelation, rendering the product unusable. If gelation occurs, the product cannot be restored and should be discarded. Additionally, minimize prolonged exposure to air to prevent degradation. Under recommended conditions, **HIND CS 40** has a shelf life of three months after production.

## SHELF LIFE

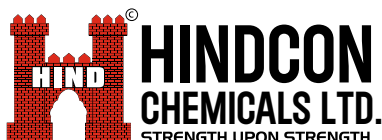
Best before 3 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight.



## IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour can change as per the prevailing conditions at the time of applications. Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use. The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.



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