

**WACKER**

CREATING TOMORROW'S SOLUTIONS

HDK®

## TOUGHNESS. WITH HDK®.

Toughness in automotive seals: Our pyrogenic silica makes sure that seals endure physical stress without getting brittle for a safe and fun driving experience. HDK® H30RY helps dissipate energy evenly through the binder matrix, thus reducing noise and vibration induced wear on adjacent components. HDK® – the pyrogenic silica with personalized service.

WACKER has been producing pyrogenic silica under the brand name HDK® since the 1970s. As one of the world's leading producers of fumed silica, we offer a comprehensive portfolio of hydrophobic and hydrophilic grades serving numerous industries and applications. HDK® fumed silica imparts outstanding reinforcement and rheology control and acts as a superb free-flow additive on powders.

## PYROGENIC SILICA | RHEOLOGY CONTROL

# HDK® H30RY

## Enhanced rheology control with HDK®

HDK® H30RY is a hydrophobic, methacrylic-functional silica. Due to reactive surface treatment it can be seamlessly incorporated into resin networks, forming highly stable bonds at nano-level. Thus extraordinary toughness, scratch resistance, tensile strength and breaking strength can be achieved for vinyl ester, polyester and acrylate-based systems.

### Product Description

HDK® H30RY is a specialty grade of pyrogenic silica that can be used as an additive to optimize the mechanical properties of sealants, paints and adhesives.

### Applications

- Sealants
- Coatings
- Adhesives
- Dental fillings
- Nail gels
- Active filler

### Properties

- Chemical incorporation into resin networks
- Providing outstanding toughness and scratch resistance
- Increasing tensile strength and breaking strength
- Dissipating energy
- Rheology control in UP resin, vinyl ester as well as acrylate-based formulations

### Application Spectrum

The special pyrogenic silica HDK® H30RY is suitable for modifying a wide range of coatings, adhesives and sealants. It is also used to optimize the properties of dental fillings and nail gels.

### Reliable Delivery

Due to our vertically integrated production and global logistics network we are able to deliver HDK® H30RY swiftly and reliably.

#### Characteristic Physico-Chemical Data

|                           | HDK® H30RY              |
|---------------------------|-------------------------|
| BET specific surface area | ~ 200 m <sup>2</sup> /g |
| Carbon content            | ~ 7 %                   |
| pH in suspension          | ~ 6                     |
| Tamped density            | ~ 70 g/l                |
| Loss on drying            | < 1 %                   |

#### Pyrogenic Silica with Personalized Service

Profit from decades of experience, our vertically integrated production and hands-on technical expertise. We help you find the perfect solution for your specific requirements, be it by modifying a product or testing and analyzing different dosages of HDK® to your carrier medium. Should you have any questions or need assistance, our technical support team will be happy to advise you. Simply contact us at the address given below. For more information visit: [www.wacker.com/hdk](http://www.wacker.com/hdk)

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