



- Lower Usage
- Less Storage Space
- Double Density
- Lower Logistics Costs
- More HDK® per Bag
- Less Dust
- Less Cleaning
- Less Waste
- More Sustainability



# HDK® PRESSED GRADES – THE LIGHTWEIGHT HEAVYWEIGHT

HDK® from WACKER was developed to perform at its best every day. Whether in the pharma or packaging industry, renewable energy or construction sector: HDK® pyrogenic silica is a true all-rounder and is used in a wide range of applications and industries. HDK® pyrogenic silica improves the performance, stability and handling of your solutions and

formulations in all phases of production and processing. HDK® is ideal for adjusting the flow properties of liquids and giving powders optimum free-flow properties. So is it really a heavyweight? In regard to value and performance, definitely. But in regard to its actual weight, definitely not. Read on.

PYROGENIC SILICA – HDK® TURNS VISIONS INTO INTELLIGENT SOLUTIONS

# HYDROPHILIC, PRESSED HDK® GRADES

## The Cost-Saving Alternative

Pressed HDK® has more than double the tamped density of its uncompressed counterpart. Yet it retains the material's crucial benefits, such as high surface area and superior purity. The higher bulk density improves product handling and logistics.

### Lower Usage

Pressed HDK® reduces the powder volume that needs to be compounded into your formulations. Thus, incorporation times are reduced and the formulation process is more efficient.

### Less Storage Space

Because a bag of pressed HDK® contains significantly more weight, you gain valuable storage space.

### Double Density

Pressed HDK® grades are mechanically compressed after production, increasing its tamped density from approximately 40 to 100 g/l.

### Lower Logistics Costs

Since a greater quantity of pressed HDK® can fit into a truck, shipping costs are lower than for non-pressed grades.

### More HDK® per Bag

Due to the pressing, a bag of the same size can hold twice as much weight. You can get a 20 kg bag of HDK® N20P instead of a regular 10 kg bag HDK® N20.

### Less Dust

Pressed HDK® forms less dust during handling and product losses due to dust formation are reduced.

### Less Cleaning

Less dust means less cleaning is required. Consequently, the ventilation of working areas can be reduced.

### Less Waste

More HDK® in a bag means that less packaging material is needed and correspondingly less waste is generated – this saves resources and reduces costs and environmental pollution.

### More Sustainability

Since a ship-or truckload holds more HDK®, the carbon footprint is lower compared to unpressed HDK®.

HDK® Hydrophilic Grades		Pressed Types				
HDK®		V15P	N20P	T30P	T40P	N20PPharma
<b>BET surface area</b> EN ISO 9277/DIN 66132	[m <sup>2</sup> /g]	130–170	175–225	270–330	360–440	172–225
<b>pH in 4% dispersion</b> EN ISO 787-9	approx.	4.1	4.1	4.1	4.1	4.1
<b>Tamped density</b> EN ISO 787/11	[g/l] approx.	100	100	100	100	100
<b>Loss on drying, ex works</b> (2 h at 105°C) EN ISO 787-2	[wt. %]	<1.0	<1.5	<1.5	<1.5	<1.5
<b>Sieve residue</b> EN ISO 787-18	[wt. %]	<0.03	<0.03	<0.03	<0.03	<0.03

Note: these figures are intended as a guide and should not be used in preparing specifications

**Pyrogenic Silica with Personalized Service**

Profit from our decades of experience, 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® in your formulation. For more information or assistance, please contact us via e-mail. Our support team will be happy to advise you.

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