

Sorbead™ Orange CHAMELEON®

Indicating silica gel for moisture control

Product information

Elevating form, function and performance...with Sorbead

Engelhard Sorbead™ Orange CHAMELEON® indicating silica gel is the newest adsorbent technology from Engelhard. Sorbead Orange CHAMELEON is used where processes and products need to be protected from the negative consequences of humidity and moisture.

High-performing and economical moisture control

As part of the Engelhard Sorbead adsorbent family, Sorbead Orange CHAMELEON is an alumino silica gel formed in hard, spherical beads with a very high resistance to crushing and a low attrition rate. All Sorbead adsorbents have a longer life than most other adsorbents and can reduce operating costs in most applications. Typical applications include:

- Transformer (air breather) – protects transformer oil from ambient moisture
- Tank and silo breather filters – protects moisture sensitive goods from humidity
- Laboratory uses – desiccators, U-pipes and drying towers

- Packaging of moisture sensitive goods
- Emissions and immissions measurement installations
- Gas drying in closed circuits such as hydrogen in power plants for turbines and leakage indication
- Wide variety of customized applications including solid drying, flower drying, conservation of boats, cars and many more

Industrial-strength protection with improved indicator functionality

Similar to our Sorbead R adsorbent, Engelhard Sorbead Orange CHAMELEON is a beaded silica gel with very high mechanical integrity. It meets the demand for a heavy-metal free and environmental friendly indicating agent.

With a new and improved indicator, Engelhard Sorbead Orange CHAMELEON provides safe moisture indication without any concerns regarding carcinogenic ingredients. It also provides superior moisture indication with a crisp color change.

The degree of moisture uptake is indicated by a color change from orange

to colorless at approx. 6 wt % water content. However, it continues to adsorb water from this point until reaching its maximum capacity.

Engelhard Sorbead Orange CHAMELEON regains its full adsorption capacity when regenerated. Its unique formulation ensures advanced stability against harmful UV-rays.

Typical bead size distribution

- 2.0 – 5.0 mm

Packaging

- Tins 20 x 1 kg, 8 x 3 kg
- Pails 8 kg
- Steel drums 25 kg, 50 kg, 150 kg

About Engelhard

Engelhard Corporation is a surface and materials science company that develops technologies to improve customers' products and processes. A Fortune® 500 company, Engelhard is a world-leading provider of technologies for environmental process, appearance and performance applications.

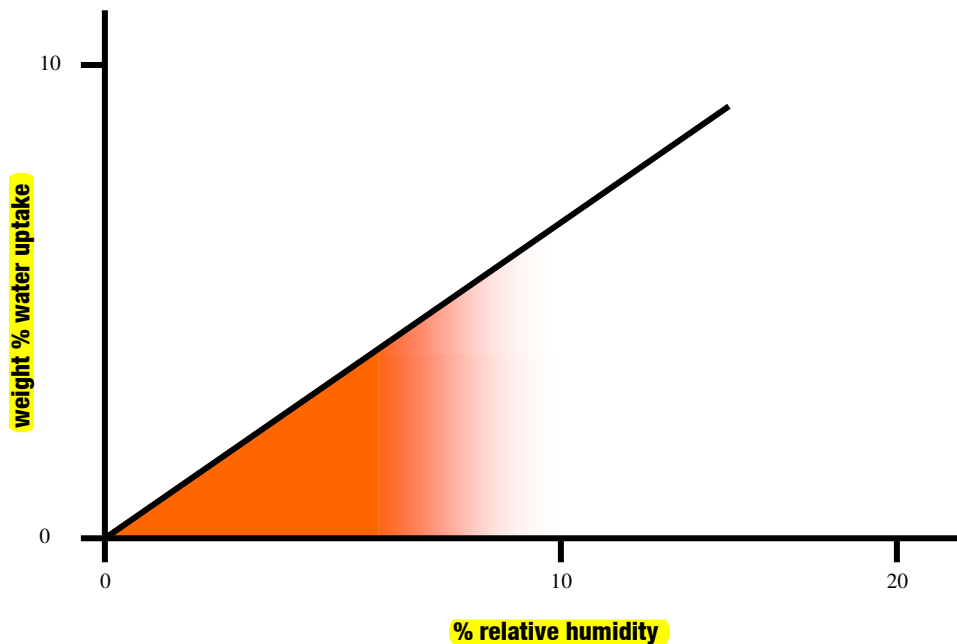
For more information about Engelhard Sorbead Orange Chameleon indicating silica gels or other Engelhard Sorbead adsorbents, call us at 877-SORBEAD or visit us at www.engelhard.com/sorbead.

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Typical properties

Surface area (BET)		700 m ² /g
Pore volume		0.4 cm ³ /g
Equilibrium capacity for water vapor at 25°C	10 % r.H.	6 wt.%
	80 % r.H.	40 wt.%
Packed bulk density		0.7 – 0.8 kg/l
Crushing strength		> 200 N
Attrition rate		< 0.05 wt.%
Color when dry		Deep orange
Color when wet		Translucent
Moisture Content		< 1 wt.%

Lab data on water vapor adsorption



ENGELHARD

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