



# DECOSPHAERA® TRANSPARENT 3 EF HT

## Chemical description

DECOSPHAERA® TRANSPARENT 3 EF HT are crosslinked polyurethane spherical microbeads, produced through a water-based industrial process.

## Main use

DECOSPHAERA® TRANSPARENT 3 EF HT enhance both performance and aesthetics in coatings and specialty applications. Their unique balance of toughness and elasticity makes them essential for high-performance formulations, offering:

- Matting Properties - Reduce gloss, even at 85°, while maintaining high black jetness.
- Haptic Enhancement - Provide a high slip soft touch.
- Functional Benefits - Improve mechanical strength, thermal resistance, abrasion resistance and chemical durability.

## Typical values

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Aspect: White powder

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pH (10%): 5 - 8

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Oil absorption: 70 - 120 %

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Dry content: 99 ± 1

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Bulk density: 300 - 500 g/l

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Particle size d(50): 3 - 5 µm

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## Product properties

The dosage of DECOSPHAERA® TRANSPARENT 3 EF HT in varnish should be adjusted based on the desired effect. They offer broad compatibility, making them suitable for use in water-based, solvent-based and UV/EB coatings; however, it's important to conduct compatibility testing for specific formulations, especially when incorporating them into solvent-based paints. The low oil absorption of DECOSPHAERA® TRANSPARENT 3 EF HT allows for high loading levels, enabling the achievement of deep matte finishes without compromising rheology.

Furthermore, DECOSPHAERA® TRANSPARENT 3 EF HT can significantly enhance surface flexibility.

## Applications

DECOSPHAERA® TRANSPARENT 3 EF HT is widely used in various applications, especially in high-quality paints & specialty coatings for enhancing performance and haptic, particularly in the automotive and synthetic/natural leather, ensuring a good thermal resistance to the top coat. DECOSPHAERA® TRANSPARENT 3 EF HT is particularly recommended when low thickness coatings are applied, like inks for flexible packaging, coil and foils coating.

## Storage and handling

DECOSPHAERA® TRANSPARENT 3 EF HT is stable for 12 months from the production date when stored in dry, cool conditions within original sealed boxes. The recommended storage temperature is between 5°C and 35°C.

Please close the inner lining of opened boxes to avoid moisture absorption and contamination.

## Packaging

DECOSPHAERA® TRANSPARENT 3 EF HT is available in 15 kg boxes.

## Material safety

Please refer to the product's safety data sheet before use.

## Regulatory information

In case compliance with specific regulations is required please contact our sales representatives.

[polymerbeads.lamberti.com](http://polymerbeads.lamberti.com)