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HOMBITAN[®] pigments

Coloration of pet foods



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The Effects of Titanium Dioxide Content on Colorimetric Data

Even used only in small amounts, HOMBITAN[®] pigment generates a smooth and uniform color in pet foods.

Example of Use

1. Preparation of a TiO₂ pre-dispersion in water.
2. Addition of the pigment dispersion to the ground pet food.
3. Measurement of colorimetric data using the Konica Minolta “Chroma Meter”.

HOMBITAN [®] TiO ₂ pigment content [%]	0	0.1	0.25	0.5	1.0
L*	51.9	54.2	56.5	58.9	61.9
b*	9.6	9.7	9.9	9.7	9.3



Pre-Dispersion

Preparation of HOMBITAN[®] TiO₂ pigment dispersion in water, using laboratory mixer (Ystral). Add water and 0.05% thickener (gellan gum, Kelcogel LT-100P/CP Kelco) to the receptacle and allow the thickener to act for approx. 10 min. Then begin mixing using the Ystral mixer. Slowly add titanium dioxide to the receptacle, while stirring, until the powder is completely wetted, then continue mixing for one more minute.

Brown jelly sauce: Potato starch, maltodextrin, rice starch, colorant (E150c), emulsifier (E471).

HOMBITAN[®] AFDC pigment was added to a brown sauce as a pre-dispersion. Colorimetric values were then measured using the Konica Minolta “Chroma Meter”.

HOMBITAN [®] TiO ₂ pigment content [%]	0	0.1	0.5	1.0
L*	36.3	61.8	73.3	78.7

From left: Brown jelly sauce containing no TiO₂, sauce containing 0.1% TiO₂ (added dry), sauce containing TiO₂ (added as a pre-dispersion).



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