

# Bermocoll EBS 451 FQ

Ethyl hydroxyethyl cellulose

BERMOCOLL EBS 451 FQ is a non-ionic, water soluble cellulose ether with enhanced enzyme resistance. It improves the consistency, the stability, and the water retention of water based products.

## Specifications

Appearance	Whitish powder
Particle size	98 % $\leq$ 500 $\mu$ m
Salt content	$\leq$ 5 %
Water content	$\leq$ 4 %

## Characteristics

pH, 1% solution	5-7
Surface activity	Weak
Viscosity at 20 °C (Brookfield LV), 1% solution	3000-4000 mPa.s

### Notes:

BERMOCOLL EBS 451 FQ is a high viscosity grade of ethyl hydroxyethyl cellulose.

## Applications

BERMOCOLL EBS 451 FQ is used in latex paints for thickening and stabilizing effects, particularly when high storage viscosity combined with low application viscosity is required. Normal dosage is 0.2 - 0.7 % calculated on the total paint weight. BERMOCOLL EBS 451 FQ is easily dispersed in cold water of pH 7 or less. BERMOCOLL EBS 451 FQ can form lumps when added to an alkaline liquid. To avoid this, it should be added as a ready stock solution, as a slurry in slight acid water or in an organic solvent, or as a dry mix with other powder materials. The dissolving time after dispersion is influenced by the water pH. Alkaline additives can be used to speed up the dissolving process.

## Storage

In unopened bags, BERMOCOLL EBS 451 FQ can be stored for several years. In opened bags, the moisture content of BERMOCOLL EBS 451 FQ will be influenced by the air humidity. At the temperatures above 250 °C (480 °F), charring of BERMOCOLL EBS 451 FQ will occur.

## Packaging and transport

Like many industrial processed powdery materials, cellulose ether dusts are combustible and can cause dust explosions. Dust formation must be avoided or kept to a minimum. Care should be taken to prevent ignition from heat, spark, open flames or hot surface. BERMOCOLL EBS 451 FQ is packed in polyethylene plastic bags. Net weight 20 kg. We recommend emptying the bags from the bottom. The empty bags can be recycled or burned.

## Safety and handling

At high temperatures and in contact with an open flame, BERMOCOLL EBS 451 FQ will burn slowly with the characteristics of cellulose.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The Nouryon logo consists of a stylized orange 'N' followed by the word 'ouryon' in a lowercase, sans-serif font, all in orange.