



# CELLOSIZ<sup>™</sup> QP 3L hydroxyethyl cellulose

## Product Description

CELLOSIZ<sup>™</sup> QP 3L hydroxyethyl cellulose (HEC) is a low molecular weight cellulosic polymer that is used extensively as a protective colloid in the emulsion polymerization of vinyl and acrylic monomers to produce latexes for architectural coatings. The typical use level of CELLOSIZ<sup>™</sup> QP 3L HEC in latex synthesis is 2% by weight (based on total monomers) in vinyl and vinyl-acrylic latex formulations, and usually less in all-acrylic formulations. Some latex manufacturers prepare more concentrated stock solutions for subsequent dilution immediately prior to latex synthesis. In addition to emulsion polymerization, CELLOSIZ<sup>™</sup> QP 3L HEC is also used as a protective colloid in suspension polymerization, particularly in the manufacture of expandable polystyrene beads. A typical use level of CELLOSIZ<sup>™</sup> QP 3L HEC in suspension polymerization is 0.4%, based on total monomer charge.

## Applications

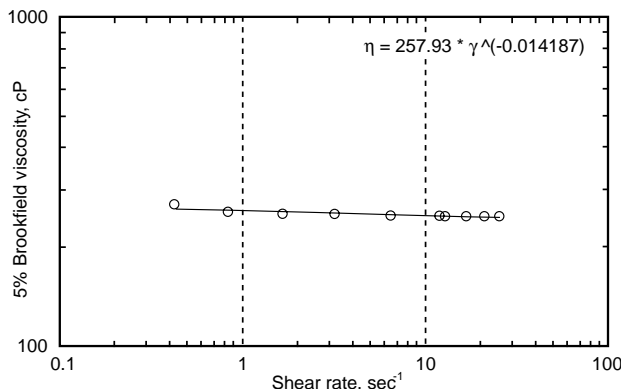
chemical processing, emulsion and suspension polymerization

## Typical Properties<sup>†</sup>

Characteristic	Range	Method
5% Brookfield viscosity	215 to 282 cP	1B-44C-0.1 (ASTM D-2364)
Water insolubles	0.07%, maximum	1B-44C-0.2
Volatiles	5.0%, maximum	1B-44C-0.3
Solution pH (2%)	6.0 to 7.0	1B-44C-0.4
Hydration time (distilled water)	10 to 30 minutes	1B-44C-0.55
Particle size through #20 mesh	98%, minimum	1B-44C-0.6

<sup>†</sup> The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications.

5% Solution viscosity of CELLOSIZ<sup>™</sup> HEC QP 3L as a function of shear rate



For more information, complete literature, and product samples, you can reach a Dow representative at the following numbers:

### From the United States and Canada

call 1-800-447-4369  
fax 1-989-832-1465

### From Mexico

call 95-800-447-4369  
fax 95-989-832-1465

### In Europe

toll-free +800 3 694 6367  
call +32 3 450 2240  
fax +32 3 450 2815

Or you can contact us on the Internet at [www.cellosize.com](http://www.cellosize.com)

**Notice:** No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Published December 2001