



# CELLOSIZER 52M hydroxyethyl cellulose

## Product Description

CELLOSIZER™ ER 52M hydroxyethyl cellulose (HEC) is a high molecular weight, enzyme-resistant cellulosic polymer. It is used extensively as a thickener in latex paints where paint formulators want an HEC polymer with high thickening efficiency. CELLOSIZER ER 52M HEC is a popular choice with many paint formulators, and typical use levels in latex paints are between 4 and 6 pounds per 100 gallons. Aqueous solutions of CELLOSIZER ER 52M HEC exhibit a high degree of pseudoplasticity (shear thinning), and are rheologically similar to CELLOSIZER QP 52000H HEC. Like all CELLOSIZER ER HEC products, CELLOSIZER ER 52M HEC contains about 1% fumed silica as a flow-aid.

## Applications

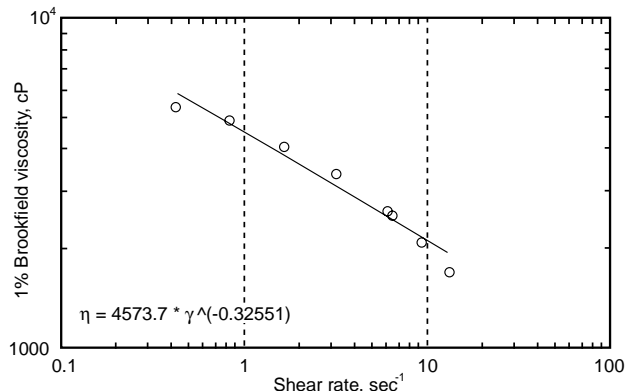
paints and coatings

## Typical Properties†

Characteristic	Range	Method
1% Brookfield viscosity	2400 to 3000 cP	1B-44C-0.1 (ASTM D-2364)
Water insolubles	1.00%, maximum	1B-44C-0.2
Volatiles	5.0%, maximum	1B-44C-0.3
Solution pH (2%)	6.0 to 8.5	1B-44C-0.4
Hydration time (pH 7.2 buffer)	5 to 20 minutes	1B-44C-0.55
Particle size	98%, minimum through #20 mesh	1B-44C-0.6

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

1% Solution viscosity of CELLOSIZER HEC ER 52M as a function of shear rate



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

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