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Technical Data Sheet

MATERIAL: Poly(acrylic acid)

CATALOG NUMBER: 412

CAS NUMBER: 9003-01-4

DESCRIPTION: Homopolymer of acrylic acid, 50% solids in water

FORMULA: $(C_3H_4O_2)_x$

TYPICAL PROPERTIES:

 Appearance:
 Liquid

 Approx Mw:
 5,000

 Refractive index:
 nD²⁵ 1.527

 Density:
 1.18 (25°C)

 Viscosity:
 250-500 cp (25°C)

pH: 2.2-3.0

Solubility: Dioxane, ethanol, methanol, water

GENERAL INFORMATION: This product is used in applications requiring high carboxylic content

without appreciable increase in viscosity. Application areas include paper sizing, drilling fluids and water treatment. Can be neutralized with a variety of reactants including ammonium hydroxide, selected amines, urea and caustic. Neutralized derivatives have been used in a variety of applications including hand creams, toothpastes, shaving creams, latex

thickeners and hand cleaners.

STRUCTURE:

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