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Technical Data Sheet

MATERIAL: Polyethyleneimine

CATALOG NUMBER: 135

CAS NUMBER: 9002-98-6

DESCRIPTION: 50% solids in water

FORMULA: $(C_2H_5N)_x$

TYPICAL PROPERTIES:

Appearance: Viscous liquid

Approx Mn: 60,000 Density: 1.07 (20°C) Viscosity: 25,000 cp (20°C)

Pour point: -3°C pH: 12 Freezing point: -20°C

Solubility: Dilutable with water, methanol, ethanol,

isopropanol

GENERAL INFORMATION: Polyethyleneimines have been used as adhesion promotors, lamination

primers, fixative agents, flocculents, cationic dispersants, stability enhancers and surface activators. Application areas include detergents, packaging, oilfield, adhesives, water treatment, inkjet inks, printing inks,

dyes, cosmetics, paper industry.

STRUCTURE: PEI is a highly branched polymer made by the acid catalyzed

polymerization of ethyleneimine. The polymer contains approximately 25% primary, 50% secondary and 25% tertiary amine groups with the

general structure given below.

$$R = H \text{ or } * \bigvee_{N} \bigvee_{N} \bigvee_{M} \bigvee_{N} \bigvee_{M} \bigvee_{N} \bigvee_{N}$$

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