

Technical Data Sheet

Analysis of Diethylene Glycol (DEG)

DIETHYLENEGLYCOL obtained from the reaction of ethylene oxide and MEG. It is a clear, transparent and odorless liquid that can be mixed with water in any proportion.

Applications:

DIETHYLENEGLYCOL is used as synthesizing agent for alkyd resins as well as saturated and unsaturated polyester. DIETHYLENEGLYCOL is used in the synthesis of polyurethane resins, as a coalescence agent, anti-freezing agent in polymer and/or acrylic homopolymer emulsions, chain extender and agent in the dispersion and wetting of unsaturated polyester resins.

DIETHYLENEGLYCOL can be used as synthesis intermediate. DIETHYLENEGLYCOL esters are used as emulsifiers. DIETHYLENEGLYCOL esters with fatty acids (oleic, stearic, lauric, etc.) are used as emulsifiers and plasticizers of polymers.

DIETHYLENEGLYCOL can be used as wetting and plasticizing agent in the production of cellophane, glues and adhesives, textiles, printing ink, leather, cosmetics, paper and pharmaceutical products.

DIETHYLENEGLYCOL can be used in antifreeze formulations in proportions of up to 10% together with MONOETHYLENEGLYCOL. The various quantitative ratios between these components are suitable for specific applications in the field of industrial refrigeration.

DIETHYLENEGLYCOL can be used as an auxiliary additive in cement milling. It can be used in extremely small proportions to produce significant results, increasing the hourly production of cement without increasing the energetic demand on the system.

DIETHYLENEGLYCOL can be used as secondary solvent in brake fluid formulations. This product is also used to avoid the excessive swelling of rubber in the hydraulic system.

Ethyleneglycols can also be used in the formulation of printing ink, in the treatment of gases, in the formulation of fire-resistant hydraulic fluids, in the formulation of cutting oils, in the formulation of surface polishers, in the formulations of agrochemicals, in the extraction of solvents, in the manufacture of pigmented pastes and putty for walls, and in the synthesis of explosives.

Specification	Result
Appearance	Colourless,transparent
Purity	99.8 wt% min
MEG	0.05 wt% max
TEG	0.05 wt% max
Water	0.05 wt% max
Colour (Pt-CO)	10 max
Specific Gravity.20/20 C	1.1175-1.1195
Boiling range at 0.1013 Mpa	
5% vol	242 C MIN
95% Vol	250 C Max
Acidity (as acetic acid)	50 mg/kg max
Ash	50 mg/kg max