

SABIC® TRIETHANOLAMINE TEA 99

DESCRIPTION

TEA 99 is a clear viscous hygroscopic liquid at room temperature with a mild ammonical odor.

TYPICAL PROPERTY VALUES

Revision 20210812

SPECIFICATIONS	TYPICAL VALUES	UNITS	TEST METHODS
SPECIFICATIONS			
Appearance			
@ 30 °C	Clear Liquid	-	SKIMS/QAD-SOP-168
Ethanolamines			
Monoethanolamine	≤0.1	%	SKIMS/QAD-SOP-293
Diethanolamine	≤0.5	%	SKIMS/QAD-SOP-293
Triethanolamine	≥99.0	%	SKIMS/QAD-SOP-293
Color			
-	≤50	APHA	ASTM D1209
Water			
-	≤0.2	%	ASTM E203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PROPERTIES			
Specific Gravity			
@ 20/20 °C	1.125	TBC	-
Melting / Freezing Point			
-	21	°C	-
Boiling Point			
-	360	°C	-
Flash Point			
Open Cup	190	°C	-

APPLICATIONS

Cement and Concrete TEA 99 and its salts are added to cement clinkers to increase the efficiency of the grinding Mill by reducing the particle agglomerations. In concrete, SABIC TEA accelerates set time and increase early set strength.

Textile TEA 99 is used in the manufacturing of environmental friendly textile fabric softener formulations.

Oil Field TEA 99 is used in enhanced oil recovery. Crude oil / water emulsion are demulsified by TEA 99.

Electroplating TEA 99 is used in electro deposition baths for Zinc.

Metal Working SABIC TEA derivatives obtained by the reaction of fatty acids are used as emulsifiable oils and, cutting fluids. SABIC TEA is an excellent chelating agent in basic solutions. This chelating ability makes SABIC TEA particularly useful in metal cleaning.

Coatings TEA 99 is used as accelerator for photo polymerization coatings.

Mining TEA 99 is used as a depressant in the floatation of copper & as an aid in the froth floatation of Nickel.

KEYWORDS

Cement and Concrete

Textile

Oil Filed

Electroplating

Metal Working

Coatings

Mining

TOXICITY AND SAFETY

Refer to SDS

STORAGE AND HANDLING

Refer to SDS

SHELF LIFE

TEA 99 can be stored up to 12 months from the date of manufacture in original, unopened, properly stored drums in good storing conditions. Beyond 12 months, SABIC recommends the quality of material to be conformed prior to use, by retesting the Certificate of Analysis Parameters. The corresponding time for the product in other packages is 9 months.

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