



THE CHEMICAL DIVISION OF COLAS

# TNB

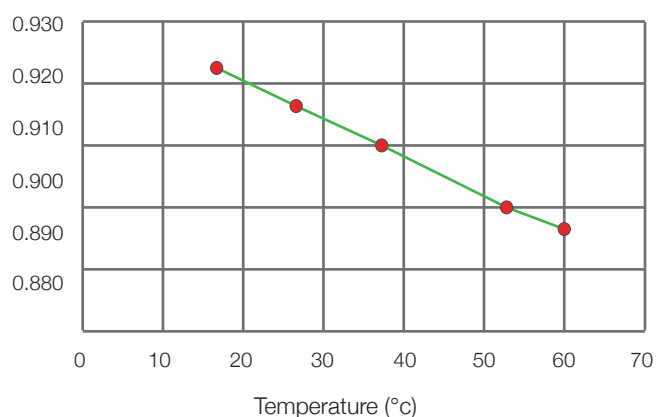


TNB, is a mix of fatty imidazoline derivates and amidoamines designed for fast-breaking emulsions with intermediate viscosity, can be used with both naphthenic and paraffinic bitumen.

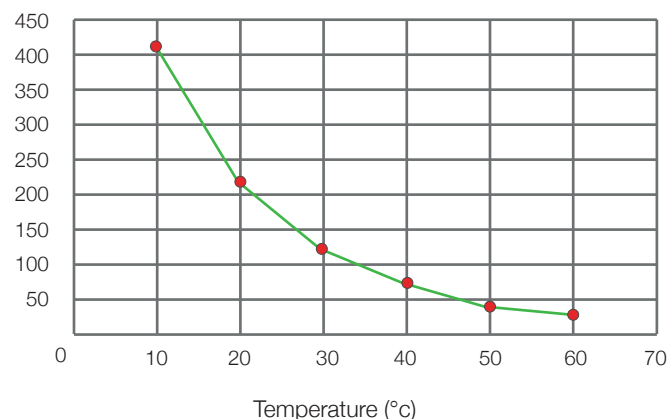


CHARACTERISTICS	METHODS	SPECIFICATIONS	TYPICAL VALUES
Physical state at 20°C	Visual test	Liquid	-
Alkalinity index (mg HCl/g)	MOPCST PC-006	>150	170
Density at 20°C (g/cm <sup>3</sup> )	CHEM 004	0.92 ± 0,05	-
Flash point, closed cup (°C)	EN 22719	>100	-
Viscosity at 25°C (mPa.s)	MOPCST PC-029	-	150
Cloud point	CHEM 003	-	< 5°C

## DENSITY TNB (g/cm<sup>3</sup>)



## VISCOSITY TNB (mPa.s)



## FORMULATION EXAMPLES (refer to CST Technical Note N°129)

Application	Surface Dressing	Surface Dressing
Bitumen type and dosage	69% naphthenic	69% paraffinic
TNB dosage	2.0 Kg/T	1.6 Kg/T
Aqueous phase pH	2.0	2.5

## STORAGE AND HANDLING CONDITIONS (refer to Chemoran guide)

TNB must be protected from exposure to water. When mixed with water, a chemical reaction can occur which leads to a reduction in some of the emulsifier's properties. Water will sink to the bottom of the emulsifier container and form a clouded viscous layer. The clear unaffected emulsifier should be carefully decanted off without disturbing this layer and used as soon as possible.

TNB must be protected from long-term exposure to atmospheric moisture. This takes place slowly on the emulsifier surface exposed to moist air. It is identified as a viscous clear skin which may lead to a reduction of product performance. Bulk storage tanks are more likely to experience this due to long storage periods and open vents. Smaller containers with small amounts of emulsifiers can be damaged on long storage especially if they are not fully sealed.

TNB must be protected from frost. Continued cold weather storage can lead to major increase in the viscosity and some precipitation may take place at temperatures below the cloud point. If this occurs TNB should be heated or agitated thoroughly to insure a homogeneous mixture before use.

## PACKING

Drum of 200Kg / IBC of 1000Kg

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