

## BTNN80 /Dilution Procedure

**Light duty concentrated coolant and the Pre-Diluted 50/50 mixture can be prepared according to the following instructions:**

### 1.1. Engine Coolant Concentrated:

Combine and agitate BTNN80 (6.10% v/v) and ethylene glycol (94% v/v) at room temperature until the mixture is clear. Take a sample for control.

*PARAMETERS OF CONTROL*

Characteristic	Method	Specification
Specific Gravity at 15.5°C	ASTM D-891	1.110 – 1.145
pH at 25°C, 50% vol % in distilled water	ASTM -1287	7.5 – 9.0

Filter and drumming.

### 1.2. Engine Coolant Prediluted (50/50):

*It can be prepared either according to Part A or according to Part B.*

#### 1.2.1. Part A (from Engine Coolant Concentrated):

Blend (50% v/v) Engine Coolant Concentrated (prepared according to item 1.1.) with water (50% v/v) according to the specification reported in item 1.3.2.. Stir the mixture at room temperature until homogenization. Take a sample for control.

*PARAMETERS OF CONTROL*

Characteristic	ASTM Test Method	Specification
Specific Gravity at 15.5°C	D-891	1.0700 – 1.0770
pH at 25°C	D-1287	7.5 – 9.0

Filter and drumming.

#### 1.2.2. Part B (from BTNN80):

Blend with stirring at room temperature ethylene glycol (47% v/v), water (49.95% v/v) and BTNN80 (3.05% v/v) until homogenization. A lightly turbidity is normally observed which disappears in short time. Take a sample for control.

*PARAMETERS OF CONTROL*

Characteristic	ASTM Test Method	Specification
Specific Gravity at 15.5°C	D-891	1.0700 – 1.0770
pH at 25°C	D-1287	7.5 – 9.0

Filter and drumming

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### MANUFACTURING PROCEDURE

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#### 1.3. Specification (Mandatory Information):

##### 1.3.1. Monoethyleneglycol:

Property	ASTM Test Method	Specification
Relative Density a 15.5°C	D-891	1.115 – 1.118
Water, mass %	D-1123	< 0.5
Chloride, ppm	D-3634	< 5
Purity, mass %	E-202	99.9
Distillation, 760 mm, °C, I.B.P. Dry Point	D-1078	> 190 < 235

These methods are referenced in Test Methods E-202

##### 1.3.2. Water Quality Limits:

Property	ASTM Test Method	Specification
Iron, ppm	E-394	< 1
Total Hardness, ppm	D-1126	< 20
Chloride, ppm	D- 512 / D-4327	< 25
Sulfate, ppm	D-516 / D-4327	< 50
pH	D-1293	5.5 – 8.5

##### 1.3.3. Recommended Filter Characteristic:

Material: Acrylic-Phenolic resin

Porosity: 5 microns

**NOTE: CELLULOSIC MATERIALS ARE NOT RECOMMENDED.**