



FARZAN Chemical Industries Co.

Product Name

Ecco V ANTI FREEZE (ORGANIC)50-50 V/V

| <i>No.</i> | <i>Test Name</i> | <i>Unit</i> | <i>Result</i> | <i>Test Method</i> |
|-------------------|---------------------------------|--------------------|----------------------|---------------------------|
| 1 | Appearance , visual color | - | Clear & green | visual |
| 2 | Boiling Point %100 | °C | Min 108 | ASTMD-1120 |
| 3 | Freezing Point (% 100 solution) | °C | -37 | ASTMD-1120 |
| 4 | Freezing Point (%50 solution) | °C | -12 | ASTM D-1177 |
| 5 | pH (50% solution) | (7.5 – 11) | 9 | ASTM D-1177 |
| 6 | Reserve Alkalinity | ml , report | 2.5 - 3.5 | ASTM D-1287 |
| 7 | Ash Content | % | Max 2.5 | ASTM D-1121 |
| 8 | Specific gravity | gr/cm ³ | Min 1.065 | ASTMD-1119 |

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| <i>No.</i> | <i>Test Name</i> | <i>Unit</i> | <i>Result</i> | <i>Test Method</i> |
|-------------------|---|--------------------|----------------------|---------------------------|
| 1 | Appearance , visual color | - | Clear & green | visual |
| 2 | Boiling Point 50%v/v in deionized water | °C | Min 108 | ASTMD-1120 |
| 3 | Boiling Point | °C | Min 163 | ASTMD-1120 |
| 4 | Freezing Point (50% solution) | °C | -37 | ASTM D-1177 |
| 5 | Freezing Point (25% solution) | °C | -12 | ASTM D-1177 |
| 6 | pH (50% solution) | (7.5 – 11) | 9.2 | ASTM D-1287 |
| 7 | Reserve Alkalinity | ml , report | 5 - 7 | ASTM D-1121 |
| 8 | Ash Content | % | Max 5 | ASTMD-1119 |
| 9 | Specific gravity | gr/cm ³ | Min 1.11 | ASTM D-1122 |

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FARZAN Chemical Industries Co.

Product Name

ANTI FREEZE *Anti Boil , Anti Corrosion*

Ecco V Power Plant

| No. | Test Name | Unit | Result | Test Method |
|------------|---|--------------------|---------------|--------------------|
| 1 | Appearance , visual color | visual | Clear | visual |
| 2 | Boiling Point 50%v/v in deionized water | °C | Min 108 | ASTMD-1120 |
| 3 | Boiling Point | °C | Min 163 | ASTMD-1120 |
| 4 | Freezing Point (50% solution) | °C | - 37 | ASTM D-1177 |
| 5 | Freezing Point (25% solution) | °C | - 12 | ASTM D-1177 |
| 6 | pH (50% solution) | (7.5 – 11) | 8.5 | ASTM D-1287 |
| 7 | Reserve Alkalinity | ml | 26 | ASTM D-1121 |
| 8 | Specific gravity | gr/cm ³ | Min 1.11 | ASTM D-1122 |
| 9 | Silicon as Silicate | % | 0 | ICP |
| 10 | Phosphate | % | 0 | ICP |
| 11 | Amine | % | 0 | ICP |
| 12 | Nitrates | % | nil | ICP |

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FARZAN Chemical Industries Co.

Product Name

ANTI FREEZE *Anti Boil , Anti Corrosion*

Ecco V HYBRID

| No. | Test Name | Unit | Result | Test Method |
|------------|---|-------------------------------|----------------------|--------------------|
| 1 | Appearance , visual color | - | Clear & red or green | visual |
| 2 | Boiling Point 50%v/v in deionized water | °C- Min 108 | 108 | ASTMD-1120 |
| 3 | Boiling Point | °C | Min 163 | ASTMD-1120 |
| 4 | Freezing Point (50% solution) | °C | -37 | ASTM D-1177 |
| 5 | Freezing Point (33% solution) | °C | -18 | ASTM D-1177 |
| 6 | Freezing Point (25% solution) | °C | -12 | ASTM D-1177 |
| 7 | pH (50% solution) | (7.5 – 11) | 8.2 | ASTM D-1287 |
| 8 | Reserve Alkalinity | ml - Min 13 | 25 | ASTM D-1121 |
| 9 | Ash Content | % | Max 5 | ASTMD-1119 |
| 10 | Specific gravity | gr/cm ³ - Min 1.11 | 1.115 | ASTM D-1122 |
| 11 | Silicon as Silicate | % | 0 | ICP |
| 12 | Phosphate | % | 0 | ICP |
| 13 | Amine | % | 0 | ICP |
| 14 | Nitrates | % | nil | ICP |

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FARZAN Chemical Industries Co.

Product Name

ANTI FREEZE Anti Boil , Anti Corrosion

Ecco V ELC Extended Life Coolant

| No. | Test Name | Unit | Result | Test Method |
|-----|---|--------------------|----------|-------------|
| 1 | Appearance , visual color | - | Red | visual |
| 2 | Boiling Point 50%v/v in deionized water | °C | Min 108 | ASTMD-1120 |
| 3 | Boiling Point | °C | Min 163 | ASTMD-1120 |
| 4 | Freezing Point (50% solution) | °C | -37 | ASTM D-1177 |
| 5 | Freezing Point (25% solution) | °C | -12 | ASTM D-1177 |
| 6 | pH (50% solution) | (7.5 – 11) | 8.6 | ASTM D-1287 |
| 7 | Reserve Alkalinity | ml | 5-7 | ASTM D-1121 |
| 8 | Ash Content | % | Max 5 | ASTMD-1119 |
| 9 | Specific gravity | gr/cm ³ | Min 1.11 | ASTM D-1122 |
| 10 | Silicon as Silicate | % | 0 | ICP |
| 11 | Phosphate | % | 0 | ICP |
| 12 | Amine | % | 0 | ICP |
| 13 | Borate | % | 0 | ICP |
| 14 | Nitrates | % | 0 | ICP |

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