



ENVIROSOL EQ-05S INSULATING FLUID

PRODUCT DATASHEET

REVISION

Rev 03 / 2026

ENVIROSOL EQ-05S is the dielectric (insulating) grade of EO-05S, the lowest-viscosity fluid in the ENVIROSOL EO S range. It pairs a **high dielectric strength** with full hydraulic performance and a markedly better discharge profile than conventional ISO hydraulic oils.

It suits high-volume systems below the waterline and topside equipment that can leak or spill to sea, including high-power electrical motors where insulation and cooling are required alongside lubrication.

EQ-05S delivers excellent lubrication, anti-wear, corrosion protection, stability, microbiological resistance and elastomer compatibility.

A breakdown voltage above 35 kV is typical when water content is held **below 20 ppm**. Confirm water content before filling, and dry the product if this is not met.

DIELECTRIC STRENGTH

>35kV

Breakdown voltage to IEC 60156. Typical at water content below 20 ppm.

ENVIRONMENTAL RATING

OCNS E · Y1

UK (OCNS Class E, no substitutables)
Norway (Yellow Y1, expected).

VISCOSITY GRADE

ISO VG 5

5 cSt at 40 °C. Lowest-viscosity grade in the EO S range.

Physical properties

TYPICAL VALUES

GENERAL

| | |
|------------------|---------------------|
| Appearance | Colourless / Yellow |
| Specific gravity | 0.828 |
| Viscosity index | > 130 |
| Water solubility | Insoluble |

THERMAL RANGE

| | |
|-------------------|----------|
| Pour point | < -40 °C |
| Upper temperature | 200 °C |

VISCOSITY (cSt)

| | |
|-----------|------|
| At 0 °C | 18.5 |
| At 40 °C | 5.0 |
| At 100 °C | 1.8 |

DIELECTRIC

| | |
|-------------------|-----------|
| Breakdown voltage | > 35 kV |
| Method | IEC 60156 |

Compatibility: fully compatible with Brayco Micronic SV/3, SV/4 and SV/B, and generally compatible with standard mineral-oil hydraulic fluids. Full compatibility data available in the Summary Manual.

Need a sample, or technical data beyond this sheet? [Speak to our team.](#)

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