



eni Simblum

eni Simblum are quenching oils formulated with paraffinic base stocks of various viscosity grades that enable to satisfy all application requirements in the field of quenching. Grades with the suffix A are fast-quenching oils, while grades with the suffix L are washable.

CHARACTERISTICS (TYPICAL VALUES)

eni Simblum		2/A	3	3/L	3/A	5/A	26/A
Viscosity at 40°C	mm ² /s	17	30	31	34	62	360
Viscosity at 100°C	mm ² /s	3.8	5.1	5.2	5.9	8.5	26.6
Flash Point COC	°C	200	210	210	210	220	250
Pour Point	°C	-12	-12	-6	-9	-12	-9
Density at 15°C	kg/m ³	850	870	880	870	880	890

PROPERTIES AND PERFORMANCES

All grades have a well-balanced formulation ensuring:

- a right cooling rate to achieve the desired hardness and avoiding deformations and cracks in the workpiece;
- a high flash point reducing possible fire hazards;
- an outstanding oxidation stability improving the resistance to thermal shock and ensuring a long life of the quenching bath;
- a reduction of the carbon deposits and sludge formation.

APPLICATIONS

eni Simblum 2/A is an accelerated quenching oil suitable for cold quick hardening treatments of small parts, screws and bolts.

Operating temperature range: +30°C / +80°C.

eni Simblum 3 is a quenching oil suitable for cold normal hardening treatments of pieces even of great dimensions.

Operating temperature range: +30°C / +90°C.

eni Simblum 3/L is a quenching oil suitable for cold normal hardening treatments suitable when washability of the product is required.

Operating temperature range: +30°C / +90°C.

eni Simblum 3/A is an accelerated quenching oil suitable for cold quick hardening treatments of a wide variety dimensions pieces; particularly suitable for screws and bolts.

Operating temperature range: +30°C / +80°C.

eni Simblum 5/A is an accelerated quenching oil suitable for semi-hot or even cold quick hardening treatments of a wide variety dimensions pieces.

Operating temperature range: +50°C / +130°C.

eni Simblum 26/A is an accelerated quenching oil with high viscosity suitable for hot normal hardening treatments. High resistance to oxidation. Outstanding behavior against thermal cracking and excellent deformations containment.

Operating temperature range: +130°C / +200°C.



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SPECIFICATIONS AND APPROVALS

eni Simblum meets the requirements of the following classification:

- ISO 6743-14/UHB (eni Simblum 2/A e 3/A)
- ISO 6743-14/UHA (eni Simblum 3 e 3/L)
- ISO 6743-14/UHD (eni Simblum 5/A)
- ISO 6743-14/UHE (eni Simblum 26/A)