

◆ Raw Material for Synthetic Lubricant And Metal Working Oil

Our raw materials for lubricant, MINERASOL have the 3 lineups, RC series, LB series and R series. The basic structure of every series is hydroxy fatty acid condensate which performs so high lubricity as other kinds of fatty acid ester are unable. Minerasol is highly biodegradable and environmental friendly because natural resource, castor oil is used as starting material.

MINERASOL

Special Castor Oil Based Fatty Acid Condensate

RC Series

Special Castor Oil Based Fatty Acid Ester Condensate

LB Series

Oiliness Improver

R Series (R-335)

Special Castor Oil Based Fatty Acid Condensate
MINERASOL RC Series

- MINERASOL RC series, transformed into salt such as amine salt, has excellent lubricity, defoaming property and separability of sliding surface lubricant for water based material and can be used in water processing oils, for example soluble machining oil for cutting and grinding.

Product	Appearance 25°C	Neutralization Value mgKOH/g	Iodine Value gI ₂ /100g	Kinematic Viscosity mm ² /s,40°C	Pour Point °C	Flash Point °C	Existence of Sludge	Package
MINERASOL RC-17	Yellow Brown Liquid	85~95	Max 5	—	0	218	○	16kgCN, 180kgDM
MINERASOL RC-22	Yellow Transparent Liquid	125~135	56	66	-5.0	214	-	16kgCN, 180kgDM
MINERASOL RC-55	Yellow Brown Transparent Liquid	51~59	90	260~340	-30.0	252	-	16kgCN, 180kgDM
MINERASOL RC-89C	Yellow Brown Transparent Liquid	85~95	70	120~150	-10.0	220	-	16kgCN, 180kgDM
MINERASOL RC-1658	Yellow Brown Transparent Liquid	82~88	90	120~140	-25.0	248	-	16kgCN, 180kgDM

Special Castor Oil Based Fatty Acid Ester Condensate
MINERASOL LB Series

- MINERASOL LB series are mono alcohol or polyalcohol ester of special hydroxy fatty acid condensate which can perform as base oil or compounding agent and also as oiliness improver for hydrocarbon oil. Especially LB-601 works as lubricant additive for industrial lubricant and engine oil for automobile with the high lubricity. LB 700 series have such excellent heat resistance and they also can be used as fiber finishing oil.

Product	Appearance 25°C	Acid Value mgKOH/g	Iodine Value gI ₂ /100g	Kinematic Viscosity mm ² /s,40°C	Pour Point °C	Flash Point °C	Package
MINERASOL LB-601	Yellow Transparent Liquid	10~15	40~50	900~1100	-25.0	305	16kgCN, 180kgDM
MINERASOL LB-702	Light Yellow Transparent Liquid	Max 5.0	Max 5	33~43	-10.0	246	16kgCN, 180kgDM
MINERASOL LB-703	Yellow Transparent Liquid	Max 1.0	Max 5	320~400	-12.5	286	16kgCN, 180kgDM
MINERASOL LB-704	Yellow Transparent Liquid	Max 4.0	Max 10	180~220	-12.5	284	16kgCN, 180kgDM
MINERASOL #11	Yellow Transparent Liquid	Max 4.0	55	140	Max -25	268	16kgCN, 180kgDM
MINERASOL L-164	Yellow Transparent Liquid	Max 5.0	Max 5	50	-5.0	248	16kgCN, 180kgDM
MINERASOL L-254	Light Yellow Transparent Liquid	Max 1.0	100~115	200	-15.0	327	180kgDM

Oiliness Improver
MINERASOL R Series (R-335)

- Minerasol R series can be used as oiliness improver for oil based material and as highly lubricate processing oil for water based material by transforming into amine salt.

Product	Appearance 25°C	Neutralization Value mgKOH/g	Pour Point °C	Flash Point °C	Existence of Sludge	Package
MINERASOL R-335	Yellow Brown Liquid	29~33	0	288	○	16kgCN, 180kgDM