



**UNDER
DEVELOPING**

1 ICHINEN CHEMICALS CO.,LTD.



ONE BIO SERIES

BIO-BASED PROCESS OIL (BIO-BASED PLASTICIZER)

What is PROCESS OIL?

Process oil serves as a plasticizer for rubber, PVC, and elastomers.

Process oil is used for adjusting elasticity and hardness, or improving kneading efficiency.



ONE BIO PROCESS OIL is

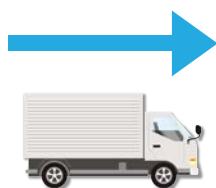
made by refining used cooking oil collected from restaurants.

*Some products are made from pure bio-based oil.

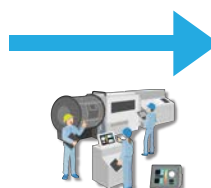
ONE BIO PROCESS OIL can contribute to reducing using of mineral-based oil and recycling waste cooking oil.



COOKING OIL



COLLECTION



REFINEMENT &
PROCESSING



PROCESS OIL

PHYSICAL PROPERTIES

NO.	MAIN INGREDIENT	PHYSICAL PROPERTIES								
		BIOMASS CONTENT	DENSITY (g/cm ³)	COLOR (ASTM)	FLASH POINT (°C)	KINEMATIC VISCOSITY (40°C) (mm ² /s)	KINEMATIC VISCOSITY (100°C) (mm ² /s)	VISCOSITY INDEX	MOISTURE (ppm)	ACID VALUE (mgKOH/g)
M-023	WASTE COOKING OIL	Around 75	0.91	0	232	11.99	3.30	154.62	854.5	0.48
M-024	WASTE COOKING OIL	Around 65	0.90	0	242	15.29	3.79	143.52	791.9	0.40
M-025	WASTE COOKING OIL	Around 90	0.93	0.5	206	9.71	2.73	124.01	783.0	0.76
M-026	BIO-BASED OIL	Around 90	0.90	0	211	8.18	2.50	141.27	297.0	0.58



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