

NE R290 OIL MIGRATION POE TO AB

Embraco / Nidec Global Appliance would like to inform its customers, that from May 2023 on, all R290 compressor models of NE family up to 14,3 cc displacement will change the oil from Polyolester (POE) to Alkylbenzene (AB).

IMPACTED MODELS (all voltages)			
NEK2121U	NEK6152U	NEU1140U	NEU6181U
NEK2125U	NEK6165U	NEU2140U	NEU6210U
NEK2134U	NEK6181U	NEU2155U	NEU6212U
NEK2150U	NEK6210U		NEU6214U
NEK2160U	NEK6213U		NEU6217U
	NEK6214U		
	NEK6217U		

CURRENT	NEW (from May 2023 on)
Polyolester (POE) - Emkarate RL22HB	Alkylbenzene (AB) - Zerol 150T

Additional Information:

- 1) Compressors SKUs remain unchanged
- 2) The POE and AB oils are functionally similar
- 3) Safety, reliability, and performance will not be impacted by the usage of AB oil
- 4) POE and AB oil are both fully compatible and miscible with R290
- 5) The mixture between AB and POE oils is completely compatible
- 6) Both oils (POE and AB) are compliant with RoHS and REACH regulations
- 7) There is no impact to external agency approvals (VDE, UL, ...)

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Find below some of the main characteristics of POE 22 and AB Zerol 150T oils

Property	Polyolester (POE)	ZEROL 150T Alkylbenzene (AB)	Method
Appearance	Clear to yellow liquid	Clear & Bright	Visual
Color	max. 1	max. 1	ASTM D-1500
Density	0.997 g/cm ³	0.870 g/cm ³	ASTM D-4052
Viscosity grade	ISO 22	ISO 32	ASTM D-445
Viscosity at 40 °C	18.9 cSt	28.8 – 35.2 cSt	ASTM D-445
Viscosity at 100 °C	4.2 cSt	(N / A)	ASTM D-445
Acid number	< 0.05 mgKOH/g	< 0.05 mgKOH/g	ASTM D-974

During phase-in / phase-out period both oils may be delivered.

Manufacture site: Embraco Slovakia s.r.o, Spišská Nová Ves, Slovakia

For further information, please contact our Technical Support team.

We appreciate your understanding and comprehension.