



PRODUCT DATA SHEET

Syn-O-Ad® 8499

- A) Application: Anti Wear Additive, Lubricant Component
B) Appearance: Clear transparent liquid
C) Chemical Description: Tertiarybutyl-Triphenylphosphate

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Product Specification				
Parameter*	Unit	Method	Limits	Typical Values**
Appearance		ASTM E 282		Clear transparent Liquid
Acid Number	[mgKOH/g]	ASTM D 974	Max. 0,05	0,03
Colour APHA		ASTM D 1209	Max. 300	150
Viscosity @ 38 °C	[mm²/s]	ASTM D 7042	39 – 50	42
Specific Gravity@ 20°C		ASTM D 4052	1,130 – 1,170	1,160
Flash point [COC]	[°C]	ASTM D 92	Min. 235	246
Fire Point	[°C]	ASTM D 92	Min. 351	360
Autoignition Temperature	[°C]	ASTM D 286	Min. 565	570
Water content	[%]	ASTM D 1744	Max. 0,1	0,05
P-Content	[%]	****	7,75 – 8,25	8
Free Phenol Content	[ppm]	LC ²	300	100
Triphenylphosphate content	[%]	GC ²	Max. 4	< 4
Other Data (guaranteed)				
Chlorine content	[ppm]	ASTM D 4929	Max. 50 ppm	25
Foaming Tendency	[ml]	ASTM D 892 (seq. 1)	< 50 ml	30

Remarks:

* = Data will be determined at each batch, approval criteria ; ** = Statistical Mean from different batches

**** = This value is obtained by determining the isomeric distribution of the product via GC and calculating the P content based on those results.

² = internal method

Other Data – not relevant for specification			
Parameter	Unit	Method	Values
Shell VKA Wear	[mm]	ASTM D 4172	
2% in Mineral oil ISO VG 22			0,46
2% in PAO ISO VG 32			0,48
2% in Ester (Pentaerythrit C8-C10)			0,54
Mineral oil without SOA			0,95
PAO without SOA			0,86
Ester without SOA			0,75

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