

# Gemini<sup>®</sup> PFPE Functional Material Phosphate Ester

## Introduction

PHP series are functional perfluoropolyether phosphate ester.

## Applications

PHP series have fantastic applications as surface treatment agent bring water/oil repellency、 mold release agent with good adhesion on almost all the substrates、 boundary lubricant additive、 lubricant on magnetic recording medium、 water proof cosmetics additive that preserve moisture、 PFPE soluble antiwear additive in vacuum system etc.

## Typical Properties

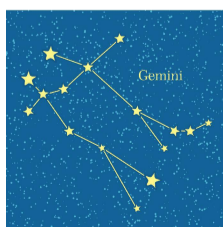
Test Items	Units	PHP-51	PHP-52	PHP-53	PHP-57
Appearance		Transparent liquid	Transparent liquid	Transparent to light yellow liquid	Transparent to light yellow liquid
Density at 25°C	g/cm <sup>3</sup>	1.94	1.95	1.95	1.95
Content	wt%	≥99.8%	≥99.8%	≥99.8%	≥99.8%
AMW(Mn)	amu	1000-2000	2000-3000	3000-4000	7000-8200

PS: The average molecular weight of the product is obtained by the calculation through the degree of polymerization by the NMR spectrum.

## Attentions

- During processing, avoid direct contact with the skin, using gloves and safety glass in the test. If skin contacts with products, immediately wipe with a dry cloth and then wash skin with soap and water, If eyes contact with products, immediately flush eyes with plenty of water for at least 5 minutes, and call a physician.
- Keep the container sealed and store in cool、 dark、 well ventilated locations, shelf life 1 year.

**Packaging/Transport** 1Kg,5Kg,10Kg plastic jug. Not classified as dangerous in the meaning of transport regulations.



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