

Product Denomination: **WHITE OIL PHARMACEUTICAL**

Issue Version: 13.09.2006

PETROYAG White Oil Pharmaceuticals are colorless, clear, oily, odorless, non-fluorescent liquids. They comply with the purity standards of the German pharmacopoeia, the European pharmacopoeia, the U.S. pharmacopoeia, and the U.S. Food and Drug Administration. White Oil Pharmaceutical are characterized by constant high quality as well as high color and oxidation stability.

APPLICATIONS and BENEFITS:

Cosmetics; *ingredients for laxatives, baby and bath oils, lotions, lipsticks, massage oils, bath cubes, anti-perspirant and deodorant sticks; base materials for ointments, cleansing and beauty creams, hair preparations, suntan /sun screen lotions and emollients*

Pharmaceutical; *as a release agent, binder and lubricant in or on capsules and tablets containing food for dietary use*

Food; *as a float on fermentation fluids in the manufacture of vinegar and wine, as a release agent in dehydrated fruits and vegetables; as a component of hot melt coating in frozen meat; in the manufacture of confectionery; egg-shell sealant and in canned food sector*

Food Packaging; *in bottling equipment requiring a USDA-1 lubricant due to possible incidental contamination of food and beverage; in lubrication of food paper and box board*

Plastics & Rubber; *plasticizer and external lubricant for production of PE, PP, PS; plasticizer in thermoplastic elastomers production such as SBS, SEBS, SEPS*

Base Oil for Industrial Lubricants *if food contact is required;*

Tourism; *non polluting lubrication/ dielectric oil for electric submersible pumps for clear mineral and spa waters*

Textile; *as PP based yarn lubricant*

Petroyag White Oils Pharmaceutical should be protected from light and stored preferably indoors.

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Test	method	WOP 5	WOP 15	WOP 30	WOP 68
Appearance	ASTM D 4176/1	C&B	C&B	C&B	C&B
Odor		NIL	NIL	NIL	NIL
Saybolt Color	ASTM D 156	+30	+30	+30	+30
Specific gravity (15 C) kg/m ³	ASTM D 1298	808-820	820-865	835-875	845-885
Viscosity at 40 °C (cSt)	ASTM D 445	4 typ	15-16,8	30 - 34	65-78
Viscosity at 100 °C (cSt)	ASTM D 445	-	typical 3,4	typical 5.1	typical min. 9
Viscosity (mPa.s)	Ph.Eur	5.3	25-80	83	110-230
Flash point COC - °C	ASTM D 92	min 130	min 180	min.195	min. 220
Pour Point °C	ASTM D 97	max.0	max -12	max. - 10	max -9
Neut. Number mg KOH/g	ASTM D 974	max. 0,01	max. 0,01	max. 0,01	max. 0,01
Total Sulphure - ppm	ASTM D 2622	max. 10	max. 10	max. 10	max. 10
Refractive index @ 20 °C	ASTM D 1218	-	1,458 - 1,478	1,464 - 1,472	1,4735 - 1,4770
Polycyclic Aromatic Hydrocarbon	Pharmacopoeias	pass	pass	pass	pass
Readily carbonizable substances	Pharmacopoeias	pass	pass	pass	pass
Solid Paraffins	Pharmacopoeias	pass	pass	pass	pass
Acidity or alcalinity	Pharmacopoeias	pass	pass	pass	pass
FDA 21 CFR 172.878	FDA	conform	conform	conform	conform
FDA 21 CFR 178.3620(a)	FDA	conform	conform	conform	conform
FDA 21 CFR 178.3570	FDA	conform	conform	conform	conform
Purity	USP 26 NF 21	conform	conform	conform	conform
Carbon Structure CA (%)	ASTM D 2140	0	0	0	0
CN (%)	ASTM D 2140	32	33	33	33
CP (%)	ASTM D 2140	68	67	67	67