



WITPROLTM

Rubber Process Oils

BIO-DEGRADABLE LOW PCA OIL - REACH COMPLIANT

PROPERTIES	UNITS	TEST METHODS	AES - 200G	AES - 514	AES - 512
Appearance	Attribute	Visual	Opaque Liquid	Opaque Liquid	Opaque Liquid
Colour	Number	ASTM D -1500	Dark Brown	Dark Brown	Dark Brown
Viscosity @ 100°C	Cst	ASTM D - 445	25 ± 5	35 ± 5	14 ± 3
Density @ 30°C	gms/cc	ASTM D - 445	0.950± 0.05	0.96 ± 0.05	0.950± 0.05
Flash Point	°C	ASTM D - 92	Min 230	Min 220	Min 220
Aniline Point	°C	ASTM D - 611	30 ± 10	60 ± 10	65 ± 10
Pour Point	°C	ASTM D - 97	25 ± 5	Max 25	Max 30
Volatile Matter at 100°C / 2 hrs.	%	ASTM D - 972	Max 1.0	Max 1.0	Max 1.0
Carbon Type Analysis					
CA	%	ASTM D 2140	NOT APPLICABLE		
CN	%				
CP	%				
Compatibility			NR, SBR & PBR		
Application			Automotive & OTR Tyre, Retread Rubber, Mats, Moulded & Extruded Product	Cost competitive Product, Automotive Tyre, Retread Rubber, Mats, Moulded & Extruded Product	Rubber Mats, Moulded & Extruded Product



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WITPROLTM
Rubber Process Oils

Rubber Process Oils
Bio-Degradable - Low PCA REACH Compliant

- Naphthenic
- Paraffinic
- Aromatic

WITMANS INDUSTRIES PVT. LTD.[®]
Lubricating The Growth



Rubber Process Oils

- Established capacity of over 60,000 MT. per annum.
- Witmans formulates customized & tailor made rubber process oils.
- Witprol Rubber process oils are very well appreciated by domestic & international Automotive & OTR Tyre, Tubes and Rubber products manufacturer.

Witmans manufactures a wide range of standard and modified rubber process oils to cater to manufacturers of NR, SBR, PBR, Butyl and EPDM based rubber Products.

Most common usage is mainly in Automotive & OTR tyres, Tubes, Moulded goods. White goods, Textiles and Biomedical applications. Witmans offers comprehensive range of Aromatic, Paraffinic and Naphthenic Rubber process oils which meets the requirements of rubber industries. Witprol Rubber Process oils have following characteristics:

- Assists in the mixing operations.
- Improves processability.
- Reduces compounding time.
- Modify the physical properties and enhanced surface finish.
- Easy mold release

Products

Aromatic Oils: Aromatic Oils are generally dark in colour & has good solvency and compatible with wide range of rubbers like NR, SBR, and PBR. It is suitable to be used in the manufacture of Automotive & OTR Tyre, beltings, mats, molded rubber parts etc.

Naphthenic Oils: These oils have good colour stability and adequate high temperature properties. It is extensively used in the manufacturing of foot wear, hot water bags, light coloured moulded & extruded products. These oils are compatible with NR, SBR, PBR, EPDM and IIR.

Paraffinic Oils: These are light Paraffinic type of oils having moderate to high viscosity and high flash point. These are recommended to be used with EPDM based rubber product & Butyl rubbers for processing of Extruded goods, Automobile tubes, Conveyor belts, Moulded rubber articles etc.

Bio-Degradable - REACH Compliant Low PCA Oils : These are Eco Friendly New Generation Green Oils meeting EU requirements, having PCA less than 3% as per IP 346 method.

PARAMETERS			AROMATIC OILS		NAPHTHENIC OILS		
PROPERTIES	UNITS	TEST METHODS	A - 711	A - 712	N - 520	N - 540	N - 840
Appearance	Attribute	Visual	Opaque Liquid	Opaque Liquid	Yellow Clear Liquid	Opaque Liquid	Clear & Bright
Colour	Number	ASTM D - 1500	Greenish Brown	Dark Brown	-	Dark Brown	-
		ASTM D - 1544	-	-	Max 3.0	-	Max 3.0
Viscosity @ 40°C	Cst	ASTM D - 445	-	-	23 ± 5	75 ± 5	350 ± 25
Viscosity @ 100°C	Cst	ASTM D - 445	35 ± 15	30 ± 5	-	-	-
Density @ 30°C	gms/cc	ASTM D - 445	0.98 ± 0.05	0.96 ± 0.05	0.895 ± 0.03	0.910 ± 0.05	0.94 ± 0.03
Flash Point	°C	ASTM D - 92	Min. 230	Min. 210	Min 140	Min. 220	Min. 210
Aniline Point	°C	ASTM D - 611	35 ± 15	Max. 40	72 ± 5	70 ± 10	90 ± 5
Pour Point	°C	ASTM D - 97	Max. 25	Max. 25	Max. - 30	Max 0	Max 0
Volatile Matter at 100°C / 2 hrs.	%	ASTM D-972	Max 1.0	Max 1.5	Max . 7.0	Max 1.5	Max. 1.5
Carbon Type Analysis		ASTM D 2140	Typical	NA	Typical	Typical	Typical
			CA	%	42	-	14
CN	%		22	-	38	34	34
CP	%		36	-	48	48	54
Compatibility			NR, SBR & PBR	NR, SBR &PBR	NR, SBR & PBR, EDPM, Butyl		
Application			Automotive & OTR Tyre, Retread Rubber, Moulded & Extruded Product, Conveyor Belts.		Extruded & Moulded Articles, Micro, Hawaii Sheets, LPG Tubes, Shoes Soles, Automotive Tubes LPG Tubes, Shoe soles, Automotive Tubes		

PARAMETERS			PARAFFINIC OILS			PARAFFINIC OILS AS SECONDARY PLASTICIZERS		
PROPERTIES	UNITS	TEST METH- ODS	P - 147	P - 248	P - 248 N	P - 04 W	P - 145 W	P - 100 W
Appearance	Attribute	Visual	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid
Colour	Number	ASTM D-1500	-	-	-	-	-	-
		ASTM D-1544	Max 15.0	Max 12.0	Max 15.0	Max. 1.0	Max 0.5	Max. 0.5
Viscosity @ 40°C	Cst	ASTM D - 445	30 - 45	460 ± 40	460 ± 40	18 ± 03	30 ± 5	100 ± 10
Density @ 30°C	gms/cc	ASTM D - 445	0.870 ± 0.05	0.880 ± 0.05	0.880 ± 0.05	0.845 ± 0.05	0.825±0.05	0.855±0.05
Flash Point	°C	ASTM D - 92	Min. 180	Min 240	Min 240	Min. 190	Min. 210	Min. 250
Aniline Point	°C	ASTM D - 611	Min. 90	Min.105	Min 100	Min. 100	Min. 100	Min. 105
Pour Point	°C	ASTM D - 97	Max. 0	Max. 1.0	Max. 1.0	Max 1	Max. 0	Max. -1
Volatile Matter at 100°C / 2 hrs.	%	ASTM D - 972	Max. 1.0	Max 0.5	Max 0.5	Max 1.5	Max 1.0	Max 0.5
Carbon Type Analysis		ASTM D 2140	Typical	Typical	Typical	Typical	Typical	Typical
			CA	%	8	8	12	2
CN	%		22	22	22	33	33	33
CP	%		70	70	66	65	65	65
Compatibility			EPDM, IIR	EPDM, IIR	EPDM, IIR	EPDM, POLYSTYRENE		
Application			Butyl Tubes, EPDM Profiles, Conveyor Belts, Hoses	Oil extended EPDM Rubber & Profile, Heat Resistant conveyor Belts, Steam Hoses & Butyl Tubes	Oil extended EPDM Rubber, Microwave / LCM Cured EPDM Profiles, Heat Resistant conveyor Belts, Steam Hoses & Butyl Tubes	Thermoplastic Elastomers, Masterbatches, Butyl Tubes, Radiator Hoses, Heat Resistant conveyor Belt, Washing Machine Gasket		

