

RUBBER PROCESS OIL PRODUCT DATA SHEET

German Technology Lubricants!

Description	:	VELVEX Rubber process oils are obtained from petroleum (crude oil), after the more volatile petrol and heating oil
		fractions have been separated through distillations. Velvex rubber process oil grades are classified as follows:

GRADES		Description			
VELVEX - PR	:	Paraffinic process oils - Low solvency & high aniline point with low aromaticity, excellent color, oxidation & Thermal stability & also elastomeric compatibility			
VELVEX - AR	:	Aromatic Process oils - Exhibit low volatility with higher solvency & viscosity for improved productivity & safety standards			
VELVEX - NA	:	Naphthenic Process oils - Exhibit High solvency, good thermal stability, excellent compatibility & non staining properties			
VELVEX - Specialty	:	LOW PCA/PAH oils - Meets PAH limits specified by regulation 1907/2006/EC, Annex XVII, Entry 50(REACH) formerly EU directive 2005/69/EC, IP 346 requirements for PCA content & fulfills mutagenicity index (MI) requirement of < 0.4 (according to ASTME 1687-10)			
Packaging Option	:	Velvex Rubber process oils are offered in HDPE & MS drums, also in bulk flexi bags or ISO tanks			

Custom viscosity ranges, density, added additives etc shall be made on specific request.

Specific

Paraffinic Rubber Oils

Typical Properties

Requirements

		Test Method (ASTM)	Specification Limits						
	Test Description		Velvex	Velvex	Velvex	Velvex	Velvex	Velvex	
			PR 32	PR 95	PR 230	PR 330	PR 410	PR 430	
	Appearance	Visual	Bright & Clear						
	Colour	D1500	2.5 Max	4 Max	5.5 Max	5.5 Max	5.5 Max	5.5 Max	
	Density @ 15.6 °C, g/ml	D1298	0.86	0.88	0.88	0.88	0.88	0.88	
	Kin. Viscosity @ 40 °C, cSt	D 445	28 –34	90 – 110	240-260	330-360	425 – 480	421 – 480	
	Aniline Point °C	D 611	94 – 105	90 – 110	104 – 116	118 – 125	105-110	118 min	
	Flash Point ^o C, min	D 92	200	240	250	250	250	285	
	Pour Point, ^o C, max	D 97	0	0	-6	-6	-3	-3	
	VGC	D 2501	0.81	0.79	0.83	0.83	0.8	0.8	
٧	olatility, 5 hrs @ 175°C, %		< 1	< 1	< 1	< 1	< 1	< 1	
	Sulphur %, Max	D 129	< 1	< 1	< 1	< 1	< 1	< 1	
	Carbon Type Analysis, %								
	C_P	IR method	60-70	60-70	75-65	75-65	75-65	75-65	
	C_N	IS 13155 – 1991	35 – 21	35 – 21	20-28	20-28	20 – 28	20 – 28	
	C _A		5 – 9	5 – 9	5 – 7	5 – 7	5 – 7	5 – 7	
ے	Polycyclic-aromatic hydrocarbons (PAH) Compliance (According to	Test Method: standard	Benzo[a]pyrene (BaP) CAS No 50-32-8 < 1 ppm & <10 ppm (sum of all PAHs)						
matic	REACH1 Annex XVII, entry 50)	EN 16143:2013	✓	✓	\checkmark	✓	✓	✓	
ce Infor	Conforms to REGULATION (EC) No 1907/2006 (REACH)1	-	✓	√	√	✓	√	√	
Compliance Information	SVHC Compliance (accordance with Article 59(10) of the REACH)	-	✓	√	√	✓	✓	✓	
Regulatory	Note L ² applies (accordance with Part 1.1.3.1. of Annex VI of REGULATION (EC) No 1272/2008 (CLP)	Test Method: IP 346	✓	√	√	✓	✓	√	

Nandan Petrochem Limited as formulator has appointed an Only Representative under the REACH regulation.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.