Matching Strength with Flexibility

gandhar
Stay Ahead

Rubber Process Oils

divyol
solutions within solutions

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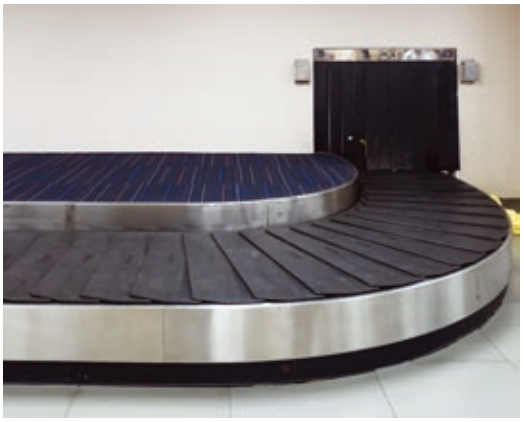
RUBBER PROCESS OILS



Going out on a stretch to serve the rubber industry

Gandhar manufactures a wide range of standard as well as customised Rubber Process Oils (RPOs) under the Divyol brand name to cater to the requirements of the rubber industry. These oils possess superior solvency with excellent oxidation stability and ageing for critical processes, which is why they're compatible with a wide range of rubber polymers.

RPOs come in three types, namely aromatic, paraffinic, and naphthenic oils:.

Aromatic Oils are generally dark in colour and are compatible with most rubber polymers. They are extensively used in the manufacture of automobile tyres, tread rubber, conveyor belts, automotive components, floor mats, etc., where the colour of the finished product is not important.

Paraffinic Oils are usually light in colour and have a wide viscosity range and higher aniline and flash points. They are used in the manufacturing of butyl tubes and EPDM-based rubber products, such as profiles, hosepipes, and automotive components.

Naphthenic Oil has good colour stability, solubility, and thermal stability. It is extensively used in the manufacturing of footwear, LPG tubes, hot-water bags, and moulded and extruded products.

In addition to the above mentioned oils, Gandhar manufactures low-PCA oils: new-generation oils that meet European Union requirements. They are used to manufacture automobile tyres, tread rubber, conveyor belts, automotive components, floor mats, etc., where the colour of the final product is not an issue.

DIVYOL AROMATIC OIL

Gandhar manufactures a wide range of standard as well as customised rubber process oils that meet the needs of manufacturers of NR, SBR, PBR, Butyl and EPDM based rubber products.

RPO is normally classified in three basic types of process oils depending upon the presence of carbon atom, namely aromatic, paraffinic and naphthenic oil.

Aromatic oils are generally dark in colour and compatible with most rubber polymers. Hence they are extensively used in the manufacture of automobile tyres, tread rubber, conveyor belts, automotive components, floor mats, reclaim rubber, etc., where the colour of the end product is not important.

Sr. No.	Characteristics		Aromatic Oils	
	Tests	Test Method	Divyol Rubber Flex A	Divyol Rubber Flex A1
1	**Colour**	ASTM D 1500	Dark greenish/brownish	
2	**Kinematic Viscosity at 100 °C in cSt**	ASTM D 445	20 – 40	12 – 19
3	**Flash Point (COC), °C min.**	ASTM D 92	200	200
4	**Aniline Point, °C**	ASTM D 611	30 – 50	30 – 60
5	**Pour Point, °C max.**	ASTM D97	24	21
6	**Acidity mgms KOH/g Oil, max.**	ASTM D 974	0.5	0.5
7	**Volatile Matter at 150 °C for 1 hour, %**	ASTM D 972	0.24	0.33
8	**Carbon Type Analysis**		Typical values	
a	**C_A%**	ASTM D 2140	41	36
b	**C_N%**		24	23
c	**C_P%**		35	41

DIVYOL LOW PCA OIL

Gandhar produces a wide range of standard as well as customised rubber process oils that meet the needs of manufacturers of NR, SBR, PBR, Butyl and EPDM based rubber products.

RPO is normally classified in three basic types of process oils depending upon the presence of carbon atom, namely aromatic, paraffinic and naphthenic oil.

Low PCA oils are new generation oils meeting EU standards. It is an MES type of oil with PCA less than 3% as per IP 346. It is extensively used in the manufacture of automobile tyres, tread rubber, conveyor belts, automotive components, floor mats, reclaim rubber, etc., where the colour of the end product is not important.

Sr. No.	Characteristics		Low PCA Oils	
	Tests	Test Method	Divyol Low PCA 360	Divyol Low PCA 700
1	**Colour**	ASTM D 1500	4	6.5
2	**Kinematic Viscosity at 40 °C in cSt**	ASTM D 445	350 – 370	750 – 860
3	**Flash Point (COC), °C min.**	ASTM D 92	230	275
4	**Aniline Point, °C**	ASTM D 611	90 – 110	100 – 110
5	**Pour Point, °C max.**	ASTM D97	-6	-3
6	**Acidity mgms KOH/g Oil, max.**	ASTM D 974	0.1	0.1
7	**Volatile Matter at 150 °C for 1 hour, %**	ASTM D 972	0.2	0.2
8	**Carbon Type Analysis**		Typical values	
a	**C_A%**	ASTM D 2140	15	15
b	**C_N%**		30	20
c	**C_P%**		55	65
9	**PCA content, %**	IP 346	< 3	< 3
10	**Sum of 8 PAH**	EPA-8082	< 10	< 10

DIVYOL PARAFFINIC OIL

Gandhar manufactures a wide range of standard as well as customised rubber process oils that meet the needs of manufacturers of NR, SBR, PBR, Butyl and EPDM based rubber products.

RPO is normally classified in three basic types depending upon the presence of carbon atom, namely aromatic, paraffinic and naphthenic oil.

Paraffinic oils are generally light in colour with wide viscosity range, and higher aniline and flash points. It is extensively used in the manufacture of inner butyl tubes, butyl reclaim, EPDM based rubber products such as weather stripes (profiles), hose pipe and automotive components.

Sr. No.	Characteristics		Paraffinic Oils			
	Tests	Test Method	Divyol Rubber Flex P 25	Divyol Rubber Flex P 23L	Divyol Rubber Flex P 25 L	Divyol Rubber Flex P
1	**Colour, max.**	ASTM D 1500	5.5	5.5	5.5	2.5
2	**Kinematic viscosity at 40 °C in cSt**	ASTM D 445	400 – 480	350 – 400	240 – 260	28 – 34
3	**Flash point COC, °C min.**	ASTM D 92	260	250	240	190
4	**Aniline point, °C**	ASTM D 611	110 – 124	95 – 110	95 – 110	90 – 105
5	**Pour point, °C max.**	ASTM D97	-3	-3	-3	0
6	**Acidity mg KOH/g oil, max.**	ASTM D 974	0.1	0.1	0.1	0.1
7	**Volatile Matter at 150 °C for 1 hour, %**	ASTM D 972	0.6	0.6	0.6	0.6
8	**Carbon type analysis**		Typical values			
a	**C_A%**	ASTM D 2140	10	12	14	9
b	**C_N%**		22	24	23	27
c	**C_P%**		68	64	63	64

DIVYOL NAPHTHENIC OIL

Gandhar manufactures a wide range of standard as well as customised rubber process oils that meet the needs of manufacturers of NR, SBR, PBR, Butyl and EPDM based rubber products.

RPO is normally classified in three basic types of process oils depending upon the presence of carbon atom, namely aromatic, paraffinic and naphthenic oil.

Naphthenic oil has good colour stability, solubility and thermal stability. It is extensively used in the manufacture of footwear, LPG tubes, hot water bags, moulded and extruded products. It can also be used as a dust seal lubrication oil in rubber industries.

Sr. No.	Characteristics		Naphthenic Oils	
	Tests	Test Method	Divyol Rubber Flex N	Divyol Rubber Flex ND
1	**Colour, max.**	ASTM D 1500	2	8
2	**Kinematic Viscosity at 40 °C in cSt**	ASTM D 445	20 – 28	20 – 35
3	**Flash Point (COC), °C min.**	ASTM D 92	160	160
4	**Aniline Point, °C**	ASTM D 611	75 – 85	75 – 85
5	**Pour Point, °C max.**	ASTM D97	0	3
6	**Acidity mgms KOH/g Oil, max.**	ASTM D 974	0.1	0.1
7	**Volatile Matter at 150 °C for 1 hour, %**	ASTM D 972	1.8	2.4
8	**Carbon Type Analysis**		Typical values	
a	**C_A%**	ASTM D 2140	25	30
b	**C_N%**		25	25
c	**C_P%**		50	45

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Gandhar Oil Refinery (India) Limited
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, GMP Certified, NABL Accreditation and Government Recognized Three Start Export House

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