



# EXCELLENCE INTERNATIONAL

## FREE ZONE COMPANY

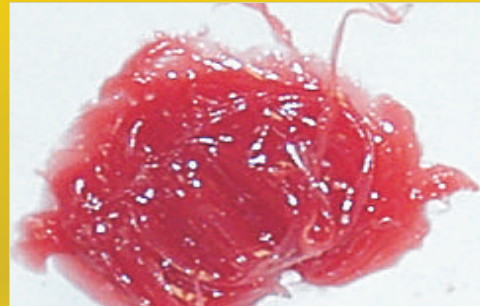
*We do common things in an uncommon way...*

### RUBBER PROCESS OILS

R.P.O are rich aromatic by products from solvent extracting process to modify physical properties of the vulcanization and to reduce the cost of the finished product.

#### Typical Uses / Applications:

- As component in rubber formulations and manufacturing of products such as automobile tiers, rubber shock absorbers, footwear, industrial hoses, wire and cable coverings, flooring materials and carrier fluid or solvent in manufacture of adhesives, sealants, polishes and carbon black
- To improve physical properties of vulcanization to reduce the cost of finished rubber compounds
- Efficient secondary plasticizers in order to reduce cost
- Tyre, Rubber and Dhooop Industry
- Used as a Lubricant in Rubber Processing
- Production of Diesel
- Used in manufacturing of White Oil
- Used as a component in Ink Production



#### RPO (Sepahan) – AROMATIC GRADE

CHARACTERISTICS	RPO	TEST METHOD ASTM
Kinematic Viscosity @ 100 Deg. C, cST	Min 30	D-445
Color	>8.0	1500 / 98
Flash point, Deg. C	Min 225	D-92
Pour point, Deg. C	24	D-97
Specific gravity @15 Deg C	1015	D-4052 / 96
Sulphur Content	Max 4.45	1266

#### Advantages:

- Low Volatility
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- Low Solubility Properties
- Elastomer Compatibility



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### RUBBER PROCESS OILS

#### RPO (Iranol) – AROMATIC GRADE

CHARACTERISTICS	RPO	TEST METHOD ASTM
Kinematic Viscosity @ 100 Deg. C, cST	35	D-445
Flash point, Deg. C	264	D-92
Pour point, Deg. C	15	D-97
Specific gravity @15.6 Deg C	0.995	D-4052
Aniline Point, Deg C	45	IP-2
Sulphur Content, (wt%)	3.5	D-2622
Ash Content, wt%	0.02	D-482
VGC	0.925	D-2501
Carbon Type Analysis, %		D-328
$c_A$	35	
$c_A$	22.7	
$c_A$	42.3	

#### RPO (Behran) – PARAFFINIC GRADE

TYPE	RPO-840	RPO-845	METHOD
Density @ 15.5 Deg C	895	905	ASTM D-4052
Flash Point	174	183	ASTM D-92
Kinematic Viscosity @ 100 Deg	21-28	26-42	ASTM D-445
40 Deg	Min 5	5-7	
VGC (MAX)	0.945	0.85	ASTM D-2501
Anline Point	79	82	ASTM D-611



#### RPO (Behran) – AROMATIC GRADE

TYPE	RPO-245	RPO-250	RPO-290	METHOD
Density @ 15.5 Deg C	985-1000	990-1040	985-1015	ASTM D-4052
Flash Point	204	246	216	ASTM D-92
Kinematic Viscosity @ 100 Deg	6-12	50-80	19-28	ASTM D-445
VGC (MAX)	0.97	0.985	0.975	ASTM D-2501
Anline Point	Max 26	Max 32	Max 32	ASTM D-611

