NST Chemical Company

Manufacturer & Exporter of Petrochemical Products



- Base oil
- Bright stock
- Rubber Process Oil (heavy & light)
- Slack wax (heavy & light)
- Paraffin wax (3% 5%)
- Residue wax
- Mazut
- Naphta (heavy & light)

BASE OIL & BRIGHT STOCK



Base oil (SN150, SN500, SN600, SN180, SN350 & Bright Stock)

Base oil and bright stock are highly refined paraffinic oils that are processed to meet high saturation and low sulphur concentration. These products have good solubility characteristics for additives in product formulations.

Applications:

• Raw material for producing wide variety lubricants.

Advantages:

- Light color
- Good solubility characteristics
- Good oxidation and color stability
- Good oxidation & color stability
- High viscosity index
- Low volatility and odor

Characteristic	SN* 150-A	SN 500	SN 600	SN 650	Bright stock	Test method ASTM
Kinematic viscosity@ 100 °C,cSt	4.9 Min 6.5 Max	11 Min 12 Max	12 Min 13 Max	13 Min 14.5 Max	28 Min 32 Max	D-445
Viscosity index (VI)	90 _{Min}	90 Min	90 Min	$85 \mathrm{Min}$	$90 { m Min}$	D-2270
Flash point, °C	205 _{Min}	235 Min	250 Min	260 Min	$300 \; \text{Min}$	D-92
Pour point, °C	-Змах	-6 Max	-6 Max	-6 Max	-6 Max	D-97
Specific gravity @15. 6°C/ 15. 6°C	0.870	0.885	0.890	0.895	0.900	D-1298
Sulphur content, (wt %)	0.5	0.4	0.6	0.7	1	D-2622
Color	2.5мах	2 Max	2.5 мах	3 Max	4 _{мах}	D-1500
NOAK (wt %)	10	6	6	5	2	D-5800
Carbon residue content, (wt %)	0.05	0.1	0.2	0.2	0.3	D-189

No	Description of Index (SN180)	figure
1	Density, at 20°C, g/cm3 , not more than	880
2	Refraction coefficient at 20°C	-
3	Kinematic viscosity at 100°C,sSt	4.5 - 6.0
4	Pour point, °C, not higher than	-12
5	Flash point, °C, not less than	205
6	Viscosity index, min	95
7	Color	
	by LIHT, max	0.5
	by ASTM, max	-
	by conditional units of KHC, max	0.5
8	Mass portion of sulfur, %, max	0.03
9	Acidity number, mg KOH by 1g oil, min	0.03
10	Ash, %, max	0.005
11	Mass Portion of Mechanical impurities, %, Max	0.005

RUBBER PROCESS OIL





Rubber Process Oil (also known as Furfural Extract) is manufactured in two grades including heavy (DAE40) and light (DAE10 & DAE11) grades. They are fully rich aromatic by-products from solvent extracting process to modify physical properties of the vulcanization and to reduce the cost of the finished product.

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.

Advantages:

- Low staining
- Low volatility
- Good solubility Properties
- Elastomer compatibility

20 Min 40 Max	D-445
200 Min	D-92
1000	D-1298
25	IP-2
4	D-2622
2	
45 5 50	D-3238
	200 Min 1000 25 4 2 45 5 50

Characteristics of Light RPO (DAE 10 & DAE 11)	Range	Test method ASTM
Kinematic viscosity @ 100 °C ,cSt	10.0	D-445
Flash point, °C	215	D-92
Pour point, °C	9	D-97
Specific gravity @ 15. 6°C/15. 6°C	1000	D-1298
Aniline point, °C	30	
Sulphur content, wt%	5	D-2622
Ash content, wt%	0.1	D-482
Carbon type analysis ,% C _A C _N C _p	60 1 39	

SLACK WAX



Heavy Slack wax

Light Tehran Slack Wax

Slack Wax (Light & Heavy) are by-products from solvent de-waxing process, provide a broad range of melting points and physical and performance characteristics that are suitable for use in various product and process applications.

Applications:

This product is used as blending components or waterproofing agents in the manufacture of various industrial products such as candles, polishes, matches, inks, carbon paper and externally can be applied as good dust suppressants or controlled-release agents for various chemical and fertilizers.

Performance Benefits:

- High paraffin contents
- High flash points
- Light color and non-staining properties

Characteristics of Heavy Slack Wax (SW40)	Unit	Typical	Test method
Kinematic viscosity@100°C	cSt	8	ASTM:D-445
Flash point	°C	265	ASTM:D-92
Specific gravity25°C/25°C	-	0.855	ASTM:D-190
Oil content	WT%	Max 35	ASTM:D-721
Congealing point	°C	61	ASTM:D-937
Color	-	2.0	ASTM:D-1500
Drop melting point	°C	65	ASTM:D-127

Characteristics of Light Abadan Slack Wax (SW10 LA)	Unit	Typical	Test method
Kinematic viscosity @ 100 °C	cSt	4	ASTM: D-445
Flash point	°C	200	ASTM: D-92
Specific gravity 25 °C/ 25 °C	-	0.840	ASTM: D-190
Oil content	WT%	35	ASTM: D-721
Color	-	1	ASTM: D-1500

Characteristics of Light Tehran Slack Wax (SW 10 T)	Unit	Typical	Test method
Kinematic viscosity @ 100 °C	cSt	5	ASTM: D-445
Flash point	°C	230	ASTM: D-92
Specific gravity 25 °C/ 25 °C	-	0.820	ASTM: D-190
Oil content	WT%	15	ASTM: D-721
Congealing point	°C	55	ASTM: D-937
Color	-	0.5	ASTM: D-1500
Drop melting point	°C	57	ASTM: D-127

PARAFFIN WAX & RESIDUE WAX



Paraffin wax is used for many purposes including candle making, food wrap, corrugated containers, nursery Stock, textiles, cheese and vegetable coatings, adhesives and coatings, cosmetics, inks and polishes, fertilizers, shoe wax, crayons, waxed paper, varnish, etc.

Residue wax (also known as foots oil) is a bi-product of petroleum. Residue Wax is obtained when oil is sweated out of slack wax. It is used in a variety of industries such as textile Industry, leather Industry, rubber industry, oil industry, etc.

Characteristics of Semi- Refined Paraffin Wax (3% - 5%)	Range
Melting Point	60-64 C °
Oil content	3% - 5 %
Packaging: carton (approx. 30 KGS)	

Characteristics of Residue Wax (Foots Oil)	Range
Melting point	35 C º
Color 15 C º	yellowish
Color 35 C º	brown
Oil content	65 + / -5 %
Wax content	35 + / -5 %
Packaging : drum	

BITUMEN



Bitumen is a sticky, black and highly viscous liquid or semi-solid form of petroleum. It is used in construction, primarily as a constituent of products used in paving and roofing applications. According to the requirements of the end use bitumen is produced to specification. Our company as an exporter of bitumen can provide you with two grades of bitumen (60/70 & 85/100).

Test	Penetration Grade		Test Method	
	60 -	- 70		
	Min	Max		
Penetration, 77° F (25° C), 100g , 5 s	60	70	ASTM D5	
Flash point, Cleveland open cup, °F (° C)	450 (232)		ASTM D92	
Ductility , 77° F (25° C), 5cm/min, cm	100		ASTM D113	
Solubility in trichloroethylene, %	99.0		ASTM D2042	
Retained Penetration after (T. F. O. T), %	52 +		ASTM D5	
Ductility, 77° F (25° C), 5cm/min, cm after Thin- film oven test	50		ASTM D113	

Test	Penetration Grade		Test Method
	85 - 10	85 - 100	
	Min	Max	
Penetration, 77° F (25° C), 100g , 5 s	85	100	ASTM D5
Flash point, Cleveland open cup, °F (° C)	450 (232)		ASTM D92
Ductility , 77° F (25° C), 5cm/min, cm	100		ASTM D113
Solubility in trichloroethylene, %	99.0		ASTM D2042
Retained Penetration after (T. F. O. T), %	47 +		ASTM D5
Ductility, 77° F (25° C), 5cm/min, cm after Thin- film oven test	75		ASTM D113

<u>MAZUT 380</u>



Mazut is a heavy fuel oil, used in manufacturing plants and similar applications. The most important consideration (not the only consideration) when grading this fuel is the sulfur content.

Typical properties:

Test item	Result	Test method
Density at 15°C Kg/1	0.980	ASTMD 1298/99
Kinematic Viscosity at 50° C cSt	375	ASTMD 445/01
Flash Point °C	120	ASTMD 93/02
Water Content % Vol	0.5	ASTMD 95/99
Sulphur Content % Wt	4.3	ASTMD 4294/02
Pour Point °C	+ 12	ASTMD 97/02

NAPHTA



Naphta (Heavy & Light) is a liquid mixture of hydrocarbons. It can be a constituent of natural gas condensate or a distillation product from petroleum, coal tar, or peat boiling.

Applications:

Naphtha is used mainly as feedstock for producing high octane gasoline (through catalytic reforming process). It is also used in the bitumen mining industry as adiluent, the petrochemical industry for producing olefins in steam crackers, and the chemical industry for solvent (cleaning) applications. Products made with it include lighter fluid, fuel for camp stoves, and some cleaning solvents. Light naphtha is also used directly as a blending component in the production of gasoline. Typical Properties:

Characteristics of Heavy Naphta	Range
Density	755 – 770
IBP	61 3
	01.0
F.B.P	374.4
Flash point	<10
Cloud point	< -20
color	1.5
API gravity	52.77

Characteristics of Light Naphta	Range
Density	730 – 740
I.B.P	59.3
F.B.P	305.7
Flash point	<10
Cloud point	< -30
color	1
API gravity	61.85

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