

## Process oils

### ISO L-Y

# PROCESS OILS

PROCESS OILS are mineral oils made of high quality oil base of the appropriate hydrocarbon composition, paraffinic, naphthenic or aromatic base. Depending on the user requirements, they are made in several grades, according to viscosity and by type of base.

#### ADVANTAGES

- Excellent oxidation stability;
- Good compatibility with natural and synthetic polymers;
- Neutral odour;
- Excellent processability of the polymer mixture.

#### QUALITY LEVEL

ISO 6743-10

#### APPLICATION

PROCESS OILS are used as polymer softeners in the process of producing tires, rubber technical products and other polymer based products.

#### TYPICAL CHARACTERISTICS – PARAFFINIC OILS (ISO-L-YEC)

CHARACTERISTICS	UNITS	PROCESS OIL				METHODS
		32	100	220	320	
Appearance	-	clear oil	clear oil	clear oil	clear oil	Visual
Density at 15°C	g/ml	0,870	0,880	0,887	0,895	SRPS EN ISO 3675
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	32	100	220	300	SRPS ISO 3104
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	5,3	11	18,1	22,2	SRPS ISO 2909
Viscosity index	-	min 95	min 90	min 90	min 90	SRPS ISO 2909
Pour point, max	°C	-18	-15	-9	-9	SRPS ISO 3016
Flash point, min	°C	200	230	230	250	SRPS EN ISO 2592
Acid number, max	mg KOH/g	0,01	0,01	0,01	0,01	SRPS ISO 6618
Content Ca/Cn /Cp	%	6/32/62	6/31/63	3/32/65	3/31/66	ASTM D 2140
Polycyclic aromatics content	%	max 3	max 3	max 3	max 3	IP 346

### TYPICAL CHARACTERISTICS – NAPHTHENIC OILS (ISO-L-YEB)

CHARACTERISTICS	UNITS	PROCESS OIL				METHODS
		15 N	22 N	32 N	100 N	
Appearance	-	clear oil	clear oil	clear oil	clear oil	Visual
Density at 15°C	g/ml	0,890	0,900	0,910	0,920	SRPS EN ISO 3675
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	14	22	32	100	SRPS ISO 3104
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	2,9	3,7	4,6	8,5	SRPS ISO 3104
Pour point, max	°C	-39	-33	-21	-15	SRPS ISO 3016
Flash point, min	°C	150	170	195	210	SRPS EN ISO 2592
Acid number, max	mg KOH/g	0,03	0,03	0,03	0,03	SRPS ISO 6618
Content Ca/Cn /Cp	%	9/46/45	10/43/47	11/42/47	12/40/48	ASTM D 2140
Polycyclic aromatics content	%	max 3	max 3	max 3	max 3	IP 346

### TYPICAL CHARACTERISTICS – AROMATIC OILS (ISO-L-YEA)

CHARACTERISTICS	UNITS	PROCESS OIL				METHODS
		320 A	460 A	680 A	3200 A	
Appearance	-	clear oil	clear oil	clear oil	clear oil	Visual
Density at 15°C	g/ml	0,900	0,920	0,960	0,980	SRPS EN ISO 3675
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	300	460	680	3200	SRPS ISO 3104
Pour point, max	°C	-12	-6	0	20	SRPS ISO 3016
Flash point, min	°C	250	250	260	280	SRPS EN ISO 2592
Acid number, max	mg KOH/g	0,01	0,01	0,01	0,01	SRPS ISO 6618
Content Ca/Cn /Cp	%	25/40/35	20/40/40	20/40/40	20/40/40	ASTM D 2140
Polycyclic aromatics content	%	max 3	max 3	max 3	max 3	IP 346

#### STORAGE

Store in covered area. If stored outdoors, it is necessary to place the drums in a horizontal position to prevent the accumulation of water on the surface of the drum. Do not store at elevated temperatures or in locations exposed to direct sunlight.

All necessary instructions can be found in the product SDS. It contains the details of possible hazards, warnings and first aid measures, as well as the impact on the environment and the necessary measures for the storage and handling.

#### PACKING

Tin drums of 180 kg, container of 850 kg and according to customer requirements.

Data are orientational, manufacturer reserves the right to make changes in order to improve product quality.