

Base oils and process oils

moeve

CEPSA becomes moeve

Moeve is a global company comprising over 11,000 employees, **committed to sustainable energy and mobility.**

Our ambition is to **drive Europe's energy transition** and accelerate decarbonization both within the company and for its customers.

Our more than 90 years of experience have led us to become one of the leading companies in the Spanish energy sector and develop our activities worldwide.

In 2022, we launched our **Positive Motion** strategy to become a leader of the energy transition.

And since 2024, we have been Moeve, a decisive step that guarantees today's energy supply while **facilitating the sustainable energy of the future.**

All of this strengthens our company and allows us to operate efficiently in an ever-changing environment. We are present in daily life: from electricity and transportation to the heating and detergent we use in our homes.

At Moeve, we work throughout the entire energy value chain, **driving a model that is increasingly sustainable.**





Sustainability

We are committed to sustainability and therefore study the potential impacts and footprints that our products may leave behind during both manufacture and use. Only in this way can we guarantee one of our priorities: environmental protection.

Committed to responsible management

Moeve is involved in various initiatives and business associations as part of our commitment to responsible management and sustainable development.

We contribute to the SDGs by identifying priorities as part of our Positive Motion strategy and Sustainability Plan.

We work to build solid and transparent relationships that generate value for our customers.

Base oils and process oils

The difference of a leading brand

At Moeve, we implement processes to produce top-quality base and process oils.

What sets us apart?

- We only use top-quality crude oil as raw material.
- This ensures uniformity and consistent quality in each batch.

Where do we do it?

- Gibraltar-San Roque.

The Gibraltar-San Roque Energy Park — located at a strategic point near the Strait of Gibraltar and the main maritime corridors— is where these products are manufactured.
Its location allows for easy connections with international markets and shorter loading and distribution times.

International:

- Ship
- Tanker
- Isotank
- Flexitank (a new automated loading bay that improves costs and times)

Domestic:

- Tanker
- Isotank





Base oils

Base oils, derived from distillation and other refining techniques, are primarily used as a raw material in lubricant manufacturing. They are mainly paraffinic.

Properties	Units	Standard	Limit	Base 150	Base 600	Base BS
Density at 15°C	Kg/l	ASTM D 4052	Typical	0,8721	0,8905	0,9065
Appearance	-	Visual	Typical	Clear and bright	Clear and bright	Clear and bright
Viscosity at 40°C	cSt	ASTM D 445	Minimum-maximum	28-32	109-125	Typical 490,43
Viscosity at 100°C	cSt	ASTM D 445	Minimum-maximum	Typical	Typical	30
Viscosity index	-	ASTM D 2270	Minimum-	102	95	95
Pour point	°C	ASTM D 5949/5950	Maximum	-15	-6	-6
Flash Point V/A	°C	ASTM D 92	Minimum-	210	265	282
ASTM Color	-	ASTM D 1500	Maximum	1	2	5
Micro carbon	% peso	ASTM D 4530	Maximum	0.05	0,15	0,8
Sulfur	% peso	ASTM D 4294	Typical	0,76	1,14	1,45
Volatiliy (Noack) at 250°C	(m/m)	CEC L-40-A-93	Maximum	14	-	-
Acid number	(mg. KOH/g.)	ASTM D 664	Minimum-maximum	Max 0,05	Max 0,05	Typical 0,04
Humidity from crepitation	-	Moeve	Typical	No crepitation	No crepitation	No
Water content (Karl-Fischer)	ppm	ASTM D 6304	Typical	104	120	96

Process oils

Process oils are petroleum products that can be applied in a wide variety of chemical and technical industries, either as a raw material or to optimize tire, technical rubber, and polymer manufacturing processes. In addition, these oils can be used in the production of asphalt sheets, inks, paints, and cable products. We have both paraffinic and aromatic process oils.

Paraffinic process oils

Properties		Units (%)	Standard	Limit	Process 150	Process 600	Process 900
Nature		-	-	-	Paraffinic	Paraffinic	Paraffinic
Density at 15°C		Kg/l	ASTM D 4052	Typical	0,8743	0,8910	0,9062
Appearance		-	Visual	Typical	Clear and bright	Clear and bright	Clear and bright
Viscosity at 40°C		cSt	ASTM D 445	Minimum-maximum	28-32	109-125	Típico 492
Viscosity at 100°C		cSt	ASTM D 445	Maximum	5,23	12,08	Min-Max 30-33
Viscosity index		-	ASTDM D 270	Maximum	102	12,08	Típico 95
Pour point		°C	ASTM D 5949/5950	Maximum	-15	-6	-6
Flash point, /V/A		°C	ASTM D 92	Maximum	210	265	282
ASTM Color		-	ASTM D 1500	Maximum	1	2	5
Micro carbon residue		%	ASTM D 4530	Maximum	0,05	0,05	0,04
Sulfer		%	ASTM D 4294	Typical	0,72	1,07	1,42
Acid number		(mg. KOH/g.)	ASTM D 664	Maximum	0,05	0,05	0,04
Humidity from crepitation		-	Moeve	Typical	No	No	No
Water content (Karl-Fischer)		ppm	ASTM D 6304	Typical	100	118	94
*Carbon distribution	% paraffinic C		Brandes	Typical	62,8	65,2	68,9
	% naphthenic C		Brandes	Typical	33,2	30	24,4
	% aromatic C		Brandes	Typical	4	4,8	6,7

Aromatic process oils

PROPERTIES	Units	Standard	Limit	Process 2500 (Residual Aromatic Extract)
Nature	-	-	-	Aromatic
Density at 15°C	Kg/l	ASTM D 4052	Minimum-maximum	0,96 -1,01
Viscosity at 100°C	cSt	ASTM D 445	Minimum-maximum	45-70
Pour point	°C	ASTM D 5949/5950	Typical	20
Flash Point V/A	°C	ASTM D 92	Maximum	220
Refractive index 67°C	-	ASTM D1218	Typical	1,5235
Water content (Karl-Fischer)	Ppm (m/m)	ASTM D1218	Maximum	0,1
Aniline point	°C	ASTM D 611	Typical	65
Sulfur	%	STM D 1552	Typical	4
C Composition: C/A (non S-corr.)	%	ASTM D 2140	Typical	34
C Composition: C/N (non S-corr.)	%	ASTM D 2140	Typical	24
C Composition: C/P (non S-corr.)	%	ASTM D 2140	Typical	42
Viscosity- gravity constant	-	ASTM D 2501	Typical	0,907
C Composition: C/A (S-corr.)	%	ASTM D 2140	Typical	30
C Composition: C/N (S-corr.)	%	ASTM D 2140	Typical	10
C Composition: C/P (S-corr.)	-	ASTM D 2140	Typical	60
Benzo(a)pyrene content	mg/kg	-	Maximum	1
Suma 8 PAH	mg/kg	-	Maximum	10



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