



# PARAFFIN WAX

## QUALITY CARE





# PROFILE

Cepsa (Compañía Española de Petróleos, S.A.U.) is an integrated energy company operating at every stage of the oil value chain, with more than 10,000 employees.

It is engaged in petroleum and natural gas exploration and production activities; refining, the transport and sale of crude oil derivatives; petrochemicals, gas and electricity.

Operating on several continents, the Group is a dynamic enterprise with an innovative spirit. Over its long history, it has made applied research in productive processes, along with the development of new products, one of its chief hallmarks.

Seeking excellence in business, today at Cepsa we maintain the firm commitment to customer satisfaction that from the outset has been a feature of the Group, working with systems that ensure the quality of our products and services.





# REFINERY & PARAFFIN WAX PRODUCTION

Cepsa has manufactured paraffin waxes since 1976 at its Gibraltar-San Roque refinery. For operating purposes, the Base Oils & Waxes Unit is part of the refinery and is fully integrated into its processes.

Since it was opened in a strategic location for exports in 1967, the Gibraltar-San Roque refinery has become highly integrated with the petrochemicals complex in which it is located and with other local industries, which it supplies with energy products. Its process units operate using technologies designed both to save energy and to ensure maximum safety for people and for the facilities.

The refinery occupies an area of 1.5 million m<sup>2</sup> (370 acres) and directly employs over 1,000 workers on permanent contracts, as well as indirectly providing employment for a much larger number in ancillary undertakings. It distills up to 12 million metric tons of crude oil per year.





# LABORATORY OF THE SITE GIBRALTAR-SAN ROQUE

The primary function of the laboratory is to monitor the quality of the products used in and produced by the refining process. This generally involves collecting, testing and analyzing sample materials and keeping quality records, following best practices and ensuring that the quality of its testing is in accordance with specifications, standards and applicable legal requirements. As clearly specified in the

organization structure, this impartial and independent function of the laboratory prevails over any other activities such as those involving manufacturing, sales or distribution.

To ensure technical competence, the laboratory participates annually in a series of correlation tests (round robin) to check results with other laboratories. Habitual participants include IIS, INTA, DIN, AquaCheck, ERA, customers and other Cepsa labs.

The laboratory, which performs approximately 560,000 analyses every year, employs 69 highly trained people with a clear vision and dedication to service.





# AUTOMATIC WAX MOULDING

Cepsa has had an automatic wax moulding plant since October 2013. The use of modern processing technology means that every kilo of wax produced can be sold in the knowledge that accuracy and consistency have been achieved.

The plant has a totally integrated wax moulding control system. Control panels are located in the

various sections of the plant; each panel incorporates a touch-screen so that operators can run the system locally, while at the same time the various panels are linked via a communications system.

The wax slab packing system comprises case handling machinery integrated into a fully automated operation for packing cases of 5kg slabs

into an outer shipping case. Additionally, a robotic system can pack individual slabs into a pallet cardboard box. The packed cases are automatically palletized and shrink-wrapped.







# MAIN RANGE OF WAXES:

## MACROCRYSTALLINE WAXES

CHARACTERISTICS	ASTM STANDARD	PARASUR 130	PARASUR 150	PARASUR 206	PARASUR 600
Colour Saybolt	D 156	>+30	>+30	>+30	>+30
Oil (% by weight)	D 721	1,8	0,4	0,8	1,0
Needle penetration 25°C (mm/10)	D 1321	22	12	16	18
Congealing point (°C)	D 938	54	58	62	68
Viscosity at 100° C (cSt)	D 445	3,8	3,9	5,2	6,8
Quality level		FDA 21 CFR 178.3710	FDA 21 CFR 178.3710	FDA 21 CFR 178.3710	FDA 21 CFR 178.3710
		FDA 21 CFR 172.886	FDA 21 CFR 172.886	FDA 21 CFR 172.886	FDA 21 CFR 172.886
		US Pharmacopoeia (USP 39)	US Pharmacopoeia (USP 39)	US Pharmacopoeia (USP 39)	US Pharmacopoeia (USP 39)
		EU Pharmacopoeia (Ph. Eur 8.0)	EU Pharmacopoeia (Ph. Eur 8.0)	EU Pharmacopoeia (Ph. Eur 8.0)	EU Pharmacopoeia (Ph. Eur 8.0)

INCI name: PARAFFIN

*typical values*

## MICROCRYSTALLINE WAXES

CHARACTERISTICS	ASTM STANDARD	CERASUR 725	CERASUR 725 D
Colour Saybolt	D 6045	+12	+22
Oil (% by weight)	D 721	1,0	1,0
Needle penetration 25°C (mm/10)	D 1321	18	18
Congealing point (°C)	D 938	73	73
Viscosity at 100° C (cSt)	D 445	14,5	14,5
Quality level		FDA 21 CFR 178.3710	FDA 21 CFR 178.3710
		FDA 21 CFR 172.886	FDA 21 CFR 172.886
		US Pharmacopoeia (USP 39)	US Pharmacopoeia (USP 39)
		EU Pharmacopoeia (Ph. Eur 8.0)	EU Pharmacopoeia (Ph. Eur 8.0)
		INS - 905 (JEFCA - CODEX)	INS - 905 (JEFCA - CODEX)
		E - 905 (EU DIRECTIVE 95/2)	E - 905 (EU DIRECTIVE 95/2)
		Cosmetics Europe n° 14	Cosmetics Europe n° 14

INCI name: HYDROGENATED MICROCRYSTALLINE WAX

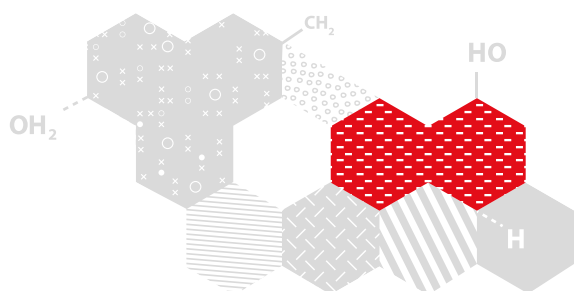
typical values



## FULLY HIDROTREATED FOOTSOILS

CHARACTERISTICS	ASTM STANDARD	GEL 600	GEL 150
Colour Saybolt	D 156	+24	+26
Oil (% by weight)	D 3235	50	40
Cone penetration 25°C (mm/10)	D 937	90	195
Congealing point (°C)	D 938	45	38
Viscosity at 100° C (cSt)	D 445	8,0	4,0
Quality level		FDA 21 CFR 172.886	FDA 21 CFR 172.886
		JEFCA 905B	JEFCA 905B
		US Pharmacopoeia (USP 39)	US Pharmacopoeia (USP 39)
		EU Pharmacopoeia (Ph. Eur 8.0)	EU Pharmacopoeia (Ph. Eur 8.0)
		Cosmetics Europe n° 15	Cosmetics Europe n° 15

typical values



# R&D CENTER

For Cepsa, R&D is a tool that generates sustainable growth, competitiveness and value, enabling the Company to optimize its production processes and product quality while improving its technological capabilities. Through its close collaboration with other business units, the Technology unit is able to develop the innovations required to build a competitive position for Cepsa by introducing improvements to processes and products and achieving cost savings.

## CEPSA RESEARCH CENTER

- 12.000 m<sup>2</sup>, 9.000 m<sup>2</sup> labs
- More than 50 on going Research Projects
- Activities in:
  - Exploration and Production
  - Refining
  - Petrochemicals
  - Innovation
- Other activities
  - Biochemistry
  - Polymers
  - Drop-in Chemicals
  - Biofuels







#### STAFF 70 PEOPLE

- 70% University studies
- 25% Technical Degree
- 5% non technical staff
- 8 PhD

Cepsa Research Center has very considerable experience in Pilot Plant operation. As a result, its facilities are largely geared to the evaluation of catalysts and processes and the chemical and physical characterization of products.

A laboratory with a number of Pilot Plants and operated by qualified personnel 24/7 is one of the Cepsa Research Center's strengths. Pilot Plants are available from micro to bench scale, from discontinuous to continuous, from manual to fully automated.

# HSE

Cepsa sees safety as an overall policy encompassing people, operations, and products, and accordingly it takes care to ensure that safety is integrated into the activities of all the Company's Business Units.

Commitment to the safety of our employees. The culture of safety, set out in our Policy on Health & Safety at Work, is further developed in the Basic Rules for the Prevention of Risks in the Workplace, and involves a commitment to the safety of people and plant and equipment; the analysis of risks, the management of changes in processes, organization and products; and the participation of all personnel in prevention.

Similarly, Cepsa's Code of Ethics and Conduct indicates that, with the objective of preventing and minimizing hazard and accidents at work, employees must be constantly aware of safety and observe with particular attention the rules relating to health and safety at work as well as those relating to the protection of the environment.

Regarding the environment, Cepsa is aware that the nature of its activities entails responsibility for the environment in which it operates. The Company is committed to reducing environmental impacts to the minimum, and it has implemented a range of mechanisms to comply with this commitment.



# REGULATIONS & CERTIFICATIONS



Paraffin waxes are complex mixtures of many substances. They are extracted from petroleum. They are solid at room temperature and are used to manufacture a wide variety of products. They are inert, impermeable, shiny, biodegradable and non-toxic.

Cepsa produces a balanced line of wax products at its Gibraltar-San Roque refinery. Our hydro-treated paraffin waxes meet applicable Food and Drug Administration (FDA) requirements for food, personal care and cosmetic related uses in 21 CFR 172.886 and 21 CFR 178.3710. They

contain a 21 CFR 172.115 approved oxidation inhibitor. They are safe for direct contact with food and use in cosmetics.

On top of the FDA specs, our heavily hydro-treated waxes meet the most important regulations around the world, such as the European Union

regulations currently in force, USP Food Chemical Codex, JECFA Codex, US Pharma, EU Pharma, Colipa, etc. Our hydrogenated products are also Halal and Kosher certified.



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## QUALITY

Cepsa has an ongoing commitment with its customers to provide quality products and services, which it will supply quickly, efficiently and safely, meeting all needs under optimum conditions. Value creation finds expression in such areas as the safe use of products, their efficiency and their respect for the environment.

Cepsa's challenge is to introduce a company-wide culture of innovation, establishing processes that encourage creativity and generate innovative ideas that are profitable to us and useful to our clients.

Cepsa has an integrated management system, with the following certifications; ISO 9001 (quality management), European Scheme EMAS, ISO 14001 (environment management), ISO 50001 (energy management), OHSAS 18001 (occupational safety and health), **ISO 22000 / FSSC 22000** (food safety management). We follow recognized Good Manufacturing Practices (GMP), a strict set of procedures to ensure compliance with regulations and products free of contamination.







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