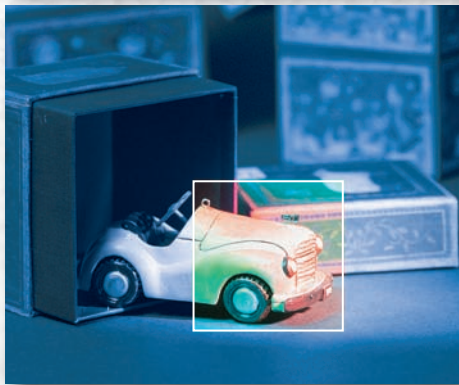


FACI UK CHEMICALS LTD







FACI.

Guaranteed Quality, Respect for the Environment



FACI Group is a global company which still retains its family owned status. This assures focus and commitment on cost competitiveness, prompt decisions, resiliency to economic cycles and allows flexibility in adapting a business model that follows the evolving market needs without compromising either quality or the fundamental values of sustainable business.





FACI Group has had deep roots in the bio based economy since its foundation. All FACI products and processes comply with the latest standards of sustainability and are sourced from renewable feedstock.

Calcium Stearate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	TYPICAL SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	100 mesh	270 mesh	
SM Microfine	135-145	6.7-7.7	1.5	3	0.1	280-450	1	-	Typical particle size
SM	135-145	6.7-7.7	1.5	3	0.1	350-500	10	-	Coarser particle size
WD	135-145	6.7-7.7	1.5	3	0.1	350-500	10	-	Water dispersable
Feed grade	135-145	6.7-7.7	1.5	3	0.1	280-450	1	-	Animal feed application

Zinc Stearate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	TYPICAL SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	100 mesh	270 mesh	
DA Microfine	118-122	13.2-13.8	1	1	0.1	200-270	-	5.0	Typical particle size
PM	118-122	13.2-13.8	1	0.5	0.1	170-270	-	5.0	Finer particle size
SM	118-122	13.2-14.0	2	1	0.5	290-470	5.0	-	Coarser particle size
LD	118-122	13.2-13.8	1	1	0.1	680-730	granule		Low dusting
Flake	118-122	13.2-13.8	1	1	0.1	540-590	flake		Non dusting
Pastille	118-122	13.2-13.8	1	1	0.1	630-670	pastille		Non dusting
L	118-123	13.2-14.4	1	1	0.1	200-270	-	5.0	Typical particle size Higher oxide
WD	118-122	13.2-13.8	2	1	0.5	290-470	15.0	-	Water dispersable

Magnesium Stearate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	TYPICAL SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	100 mesh	270 mesh	
SM	120-130	8.1-8.5	1.5	6	0.1	300-500	1	-	Typical particle size

All grades are also available with a vegetable base



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The continuous desire and propensity for finding the best balance between quality, competitiveness and sustainability is the driver of our daily activities and has existed in the company's culture since its foundation.

”



Sodium Stearate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	TYPICAL SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	100 mesh	270 mesh	
B2	210-220	22-23.5	1.2	3	0.1	600-800	bead		Non dusting

Zinc Laurate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	TYPICAL SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	100 mesh	270 mesh	
Powder	125-135	17-19	2	1	0.1	200-270	-	5	Typical particle size
Flake	125-135	17-19	2	1	0.1	540-590	flake		Non dusting
Pastille	125-135	17-19	2	1	0.1	630-670	pastille		Non dusting

All grades are also available with a vegetable base

Other products available from the FACI Group



Stearine

GRADE	TITRE	IODINE VALUE	ACID VALUE	SAP. VALUE	UNSAT. MATTER	COLOUR LOVIBOND 5" 1/4		TYPICAL COMPOSITION %				
	°C	gl/100g max	mgKOH/g	mgKOH/g	% max	R max	Y max	C14	C16	C18	C18-	C20
D1	57-60	1	202-206	203-210	0.2	0.5	2	3	31	64	1	1

Calcium Stearate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	200 mesh	325 mesh	
SP	145-160	9.2-10.0	1	3	0.1	500	non dusting microbeads		Non dusting
EPH	145-160	9.0-9.9	-	4	0.1	200	1	-	Pharma grade

Zinc Stearate

GRADE	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX		Description
	°C	%	% max	% max	% max	g/l	200 mesh	325 mesh	
SP	118-122	13.5-14.2	1	1	0.1	500	non dusting microbeads		Non dusting
EPH	118-122	12.5-14.0	-	1	0.1	300	0.5	-	Pharma grade

All grades are also available with a vegetable base

For more products refers to each single FACI brochures



The keys of our success are continuous technical development, close attention to the quality standards of our chemicals and their production process, an open-minded approach to local and international markets, a close cooperation with our customers and adhering to a long-term business view which goes beyond a generation.



Magnesium Stearate

	MELTING POINT	OXIDE	FREE FATTY ACIDS	MOISTURE	SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX	Description
GRADE	°C	%	% max	% max	% max	g/l	200 mesh	
EPH	130-145	6.65-8.3	-	4	0.1	160	1	Pharma grade

Sodium Stearate

	MELTING POINT	SULPHATED ASHES	FREE FATTY ACIDS	MOISTURE	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX	Description
GRADE	°C	%	%	% max	g/l	100 mesh	
FU	210-220	22-23.5	0.3-1.2	2	230	0.5	Cosmetic grade
VFU	210-220	22-23.5	0.3-1.2	2	230	1	Cosmetic vegetable grade
EPH	210-220	22.8-26.2	0.85-1.2	2	230	0.5	Pharma grade

Ethylene Bis-Stearamide

	MELTING POINT	ACID VALUE	AMINE VALUE	TYPICAL BULK DENSITY	COLOUR LOVIBOND 5" 1/4		SIEVE RESIDUE % MAX		Description
GRADE	°C	mgKOH/g	mgKOH/g max	g/l	R max	Y max	100 mesh	325 mesh	
SP	140-145	≤8	2	500	5	25	non dusting microbeads		Non dusting

Product available also in pastille



“

FACI is a global Group of Companies, active in the production and marketing of bio based (oleo) chemical additives since 1943.

”



Mono, Di and Triglycerides

GRADE	MONO GLYCERIDE	FREE GLYCEROL	ACID VALUE	IODINE	MELTING POINT	SOAPS	COLOUR LOVIBOND 5" 1/4		Description
	%	% max	mgKOH/g max	gl./100g max	°C	%	R max	Y max	
GMS	40 min	2	2	2	57-62	-	3	15	Low mono glyceride grade
GMS 55	55 min	2	3	1	59-65	-	3	15	Medium mono glyceride grade
GMS 60	60 min	2	3	1	60-66	-	3	15	Medium mono glyceride grade
GMS 90	90 min	1	3	1	65-70	-	2	10	High mono glyceride grade
GMS 95	95 min	1	3	1	65-70	-	2	10	High mono glyceride grade
GTS	-	-	2	1	54-64	-	3.5	20	Full Hydrogenated triglyceride

All grades are also available with a vegetable base

Product available liquid in tanks or in non dusting form: microbeads and pastilles

Aluminum Stearate

GRADE	ASH	MELTING POINT	FREE FATTY ACIDS	MOISTURE	SIEVE RESIDUE %	TYPICAL BULK DENSITY	GEL VISCOSITY	VEGETAL ORIGIN	Description
	%	°C	%	%	100 mesh	g/l	cPs		
M-132 HG	10.5-12.5	160-170	≤5.8	≤1	≤10	0.25-0.30	≥24.000	-	High gel viscosity (DI)
M-132 HGV	10.5-12.5	160-170	<5.8	≤1	≤10	0.25-30.0	≥24.000	•	High gel viscosity (DI)
M-132	10.8-13.8	150-170	≤5.8	≤2	≤10	0.25-0.30	-	-	Standard grade (DI)
M-132 V	10.8-13.8	150-170	≤5.8	≤2	≤10	0.25-0.30	-	•	Standard grade (DI)
M-133	9.5-11.5	140-150	≤8	≤1	≤10	0.25-0.30 0	≥20.000	-	Tallow based (DI)

Lubricants (for PVC applications)

Product*	Chemical Composition	Lubricant Effect in PVC				PVC Transparent Articles	Physical Form	Food Contact Approval by EU Law
		Internal	External					
L020	Fatty Acids					•	Solid	•
L090	Solid Fatty Acids Ester of Polyol	■	■	■	■	•	Solid	•
L100	Fatty Acids Ester of Polyol	■	■	■	■	•	Solid	•
L101	Fatty Acids Ester of Polyol from vegetable sources	■	■	■	■	•	Solid	•
L107	Fatty Acids Ester of Polyol from vegetable sources	■	■	■	■	•	Solid	•
L1275	Fatty Acids Ester of Polyol (Internal and External Lubricant)	■	■	■	■	•	Solid	•
L200	Fatty Acids Ester of Polyol					•	Solid	•
L320	Fatty Acids Ester of Polyol					•	Solid	•
L450	Liquid Fatty Acids Ester	■	■	■	■	•	Liquid	•
L520	Linear Solid Fatty Acids Ester					•	Solid	•
L610	Fatty Acid Ester of Polyol	■	■	■	■	•	Solid	•
L611	Fatty Acids Ester of Polyol from vegetable sources	■	■	■	■	•	Solid	•
L616	Fatty Acids Ester of Polyol from vegetable sources	■	■	■	■	•	Liquid	•
L626	Fatty Acids Ester of Polyol from vegetable sources	■	■	■	■	•	Liquid	•
L650	Fatty Acids Ester of Polyol	■	■	■	■	•	Solid	•
L660	Fatty Acids Ester of Polyol	■	■	■	■	•	Solid	•
L710	Fatty Acids Ester of Polyol with strong antistatic effect	■	■	■	■	•	Solid	•
L711	Fatty Acids Ester of Polyol from vegetable sources with strong antistatic effect	■	■	■	■	•	Solid	•
L801	Complex Ester					•	Solid	•
L804	Complex Ester					•	Liquid	•
L805	Complex Ester					•	Liquid	•
L8970	Complex Esters					•	Solid	•
L8YD	Complex Ester containing metal soap					•	Solid	•

Products for P-PVC film processing

	ACID VALUE	SAP. VALUE	CLOUD POINT	CLOUD POINT IN BDG			
AF10	mgKOH/g	mgKOH/g	°C	°C			
Antifog System	≤1.0	125-140	<0	38-42			
	CALCIUM	ZINC	VISCOSITY 25°C	ASH			
X8A	%	%	cPs	%			
Ca/Zn Stabiliser paste	1.1-1.4	1.0-1.3	≤3200	2.9-3.5			
	ACID VALUE	SAP. VALUE	REFRACTIVE INDEX	CLOUD POINT	WATER CONTENT	COLOUR LOVIBOND 1"	
L805	mgKOH/g	mgKOH/g	mgKOH/g	°C	% max	R _{max}	Y _{max}
Release Agent	12	258-272	1.474-1.479	≤-10	0.20	4	30
	MELTING POINT	ASHES	FREE FATTY ACIDS	MOISTURE	SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX
Ca/Zn Stearate 40 S	°C	%	% max	% max	% max	g/l	200 mesh
Ca/Zn Stabiliser	110-130	11.0-13.0	2	2	0.1	230	5
	MELTING POINT	ASHES	FREE FATTY ACIDS	MOISTURE	SOLUBLE SALTS	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX
Calcium Stearate SP Y19A	°C	%	% max	% max	% max	g/l	200 mesh
Ca/Zn Stabiliser	-	9.2-9.7	-	3	-	-	non dusting microbead

* Other products are available, for the full FACI L product list please refer to a FACI representative or to L series brochures



Products for Building Industry

Sodium Oleate

	MELTING POINT	SULPHATED ASHES	SODIUM CONTENT	FREE HYDROXIDE	MOISTURE	TYPICAL BULK DENSITY	PHYSICAL FORM	Description
GRADE	°C	%	%	(as Na ₂ O) % max	% max	g/l		
S	200-210	22.5-24	7.2-7.8	0.4	4	340	powder	Reactive hydrophobic agent
SP	200-210	22.5-24	7.2-7.8	0.4	4	350	non dusting microbeads	Reactive hydrophobic agent

	MELTING POINT	OXIDE	FREE FATTY SCIDS	MOISTURE	IODINE VALUE	TYPICAL BULK DENSITY	SIEVE RESIDUE % MAX	Description
GRADE	°C	%	% max	% max	gl ₂ /100g	g/l	100 mesh	
Canastol	180-190	4.5-5.3	3	3	25-45	220	1	Reactive & non Reactive hydrophobic agent





Other products available from the FACI Group

With its seven manufacturing locations (four in Europe, two in the Far East and one in USA), FACI Group is a main supplier of non-toxic stearates, esters, oleochemicals and additives to a multitude of companies operating in different industries around the world. Our main chemistry has been traditionally focused on products derived from stearic acid, both of animal and vegetable origin. While this business continues to be the core activity of our Group, the acquisition of existing production units in Europe and the USA has considerably increased the portfolio of both our chemicals and our customers.

Our growth has always been driven by a forward-thinking attitude, backed up by a strong technical, marketing and development ethos which is associated with a close cooperation with our customers

Products availability:

FACI S.p.A. - Carasco - Italy

Fatty acid, glycerine and their derivatives, metallic soaps and their dispersions, esters, stearamides and epoxydized soya bean oil. Stearic acid and derivatives available on both animal and vegetable basis.

FACI Metalest, S.L.U. - Zaragoza - Spain

Fatty acid derivatives, metallic soaps, their dispersions and liquid fatty acids esters.

FACI UK Chemicals Ltd - Knowsley - UK

Fatty acid derivatives predominantly metallic soaps.

FACI Asia Pacific Pte Ltd - Jurong Island - Singapore

Fatty acid derivatives predominantly metallic soaps and their dispersions, fatty acids esters.

FACI Chemicals (Zhangjiagang) Co., Ltd - Jiangsu Province - PRC

Fatty acid derivatives predominantly metallic soaps and esters.

eChem Ltd - Leeds - UK

Fatty acid derivatives, metallic soaps dispersions and esters.

American eChem, Inc. - Lufkin TX - USA

Fatty acid derivatives predominantly metallic soaps dispersions.

Applications



PVC	POLYOLEFINS PE-PP	ABS	POLYSTYRENE	POLYESTERS SMC-DMC	PLASTICS	STABILISERS	RUBBER	PAPER	ABRASIVES	BUILDING	COSMETIC	PHARMACEUTICAL	FOOD AND FEED	CHEMICALS	ADHESIVES	FOUNDRY RESIN	MINERAL COATING	PAINTS	FIRE - FIGHTING	POWDER METALLURGY	DETERGENT	LUBRICANTS
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UK Products

Zinc Stearate SM/DA Microfine																							
Zinc Stearate PM																							
Zinc Stearate WD																							
Calcium Stearate SM/SM Microfine																							
Calcium Stearate WD																							
Calcium Stearate Animal Feed Grade																							
Zinc Laurate																							
Magnesium Stearate SM																							
Sodium Stearate SM/B2/MF																							

FACI Group Products

Stearic Acid																							
Oleic Acid																							
Lard Oil																							
Glycerine																							
Aluminum Stearate																							
Calcium Stearate N/DW/WLC																							
Calcium Stearate S																							
Magnesium Stearate																							
Sodium Stearate																							
Zinc Stearate N/NW																							
Zinc Stearate TM/TO																							
Lithium Stearate																							
Ferric Stearate																							
Zinc and Calcium Laurate																							
Calcium Behenate																							
GMS																							
GMS/SE																							
GMO																							
Polyglycerides																							
Pentaerythritol Esters																							
EGDS EGMS																							
Cetyl Stearate																							
Sorbitol Esters																							
EBS SP-N																							
EBS W																							
Epoxol																							
Hydroxystearates																							

The information contained in this publication is based on the present state of our knowledge and experience, given without obligation.

The product properties given in the publication are not specifications.

Our technical advice and recommendations, whether verbal, in writing, or by way of trials, are given for information purposes without commitment. The customer is strongly advised, due to the many outside influences which may affect the product use and application, to carry out his or her own testing and trials.

- Corporate Headquarters
- Production sites
- Commercial offices

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UK

FACI UK CHEMICALS Ltd
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Zaragoza

Spain

Paris

France

AMBROGIO PAGANI
Bergamo

Italy

Italy
FACI S.p.A.
Carasco - GE

Italy

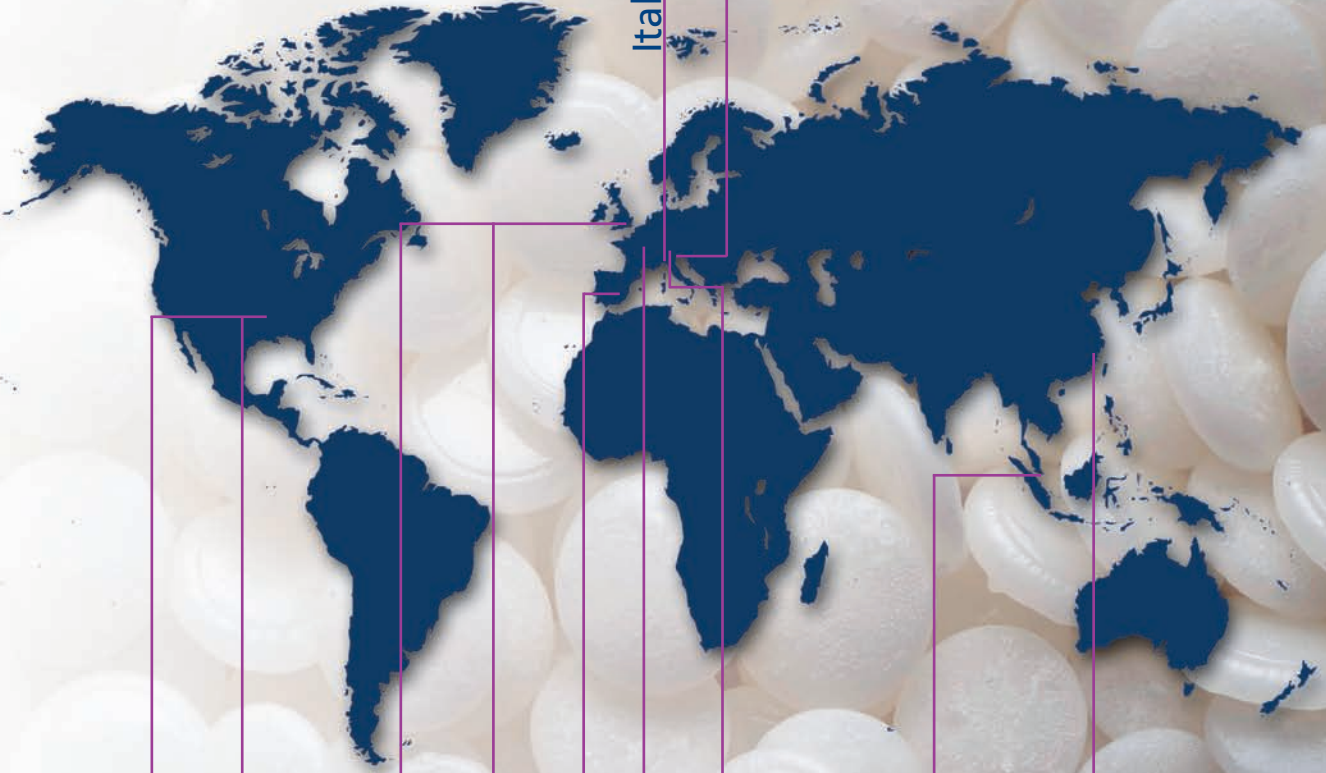
FACI Corporate
Carasco - GE

FACI ASIA PACIFIC Pte Ltd
Singapore

Singapore

FACI CHEMICALS
(ZHANGJIAGANG) Co., Ltd
Jiangsu

China





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With seven fully owned manufacturing units:

- Carasco (Italy)
- Zaragoza (Spain)
- Knowsley (UK)
- Leeds (UK)
- Jurong Island (Singapore)
- Zhangjiagang (China)
- Lufkin (USA)

The FACI Group today is a leading supplier of

- Non toxic metallic soaps and dispersions
- Fatty esters and a wide range of oleochemicals derived additives

To a large variety of industries **WORLD WIDE**

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