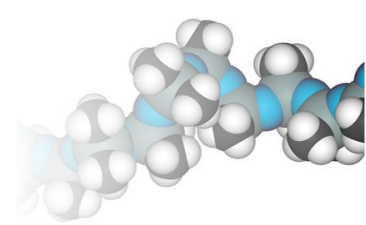


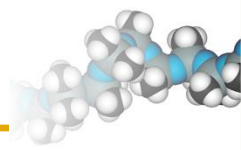
PETROCHEMICAL PRODUCT SERIES

MAR 2016



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ABOUT ELKAY CHEMICALS

For 25 years, Elkay Chemicals Pvt. Ltd. has been manufacturing world class silicone based products. Elkay Chemicals is a low cost, technology driven manufacturer.

ISO 9001-2008 (ICS) certified
REACH registered
State approved FDA facility

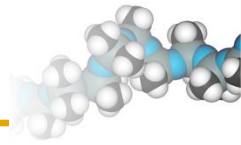
ELKAY has exported to 27
countries for over 18 years



The ELKAY Chemicals Advantage

- Long-standing relationships
- Flexible multi-purpose manufacturing facility
- Co-develop products with customers
- Confidentiality on sensitive projects
- Low cost, high quality products
- Excellent R&D facility and application lab

INDUSTRY SEGMENTS SERVED



De-foaming



Textile Finishing



Agriculture



Construction



Rubber & Tire



Pharmaceuticals



Petrochemicals

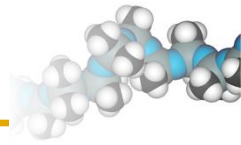


Personal Care

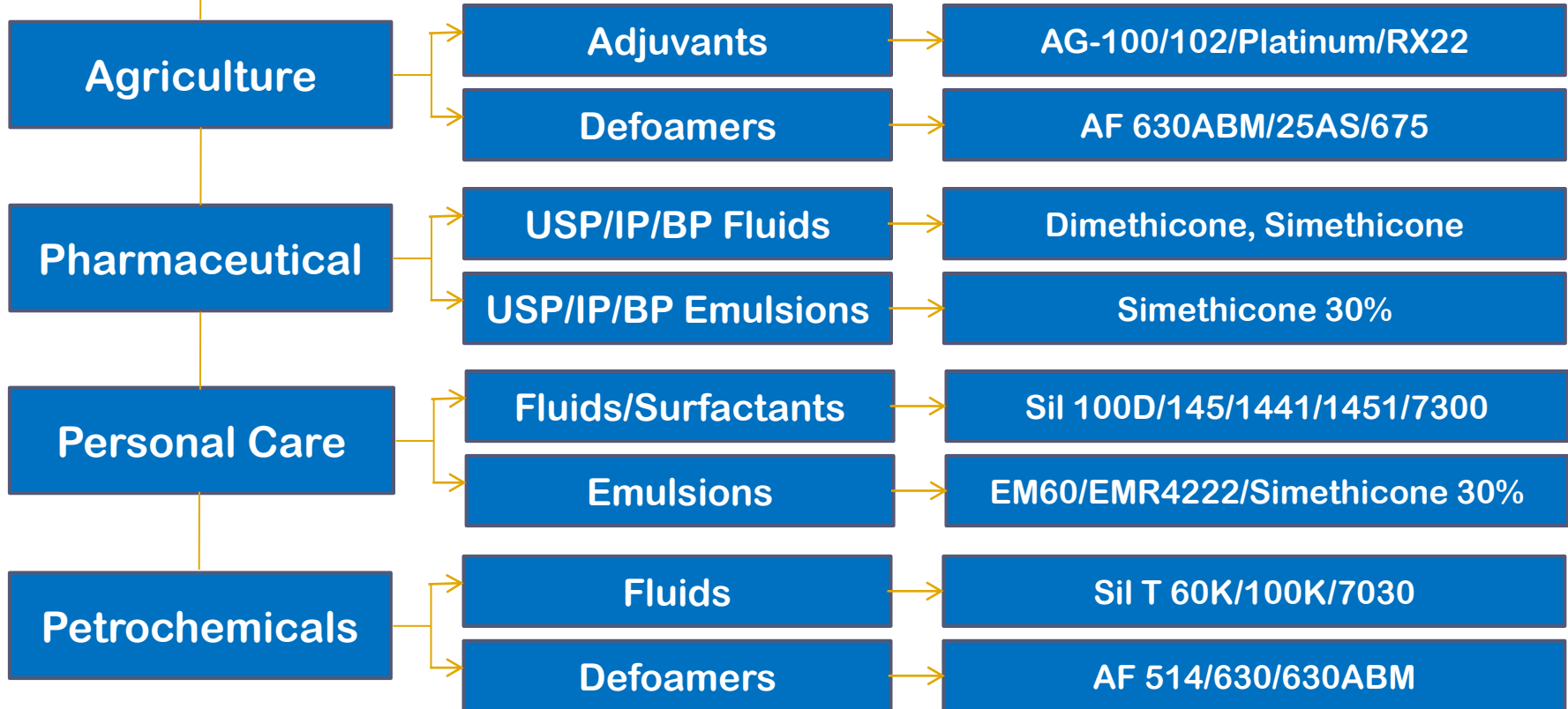


Surface Treatment

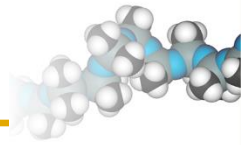
PRODUCT RANGE



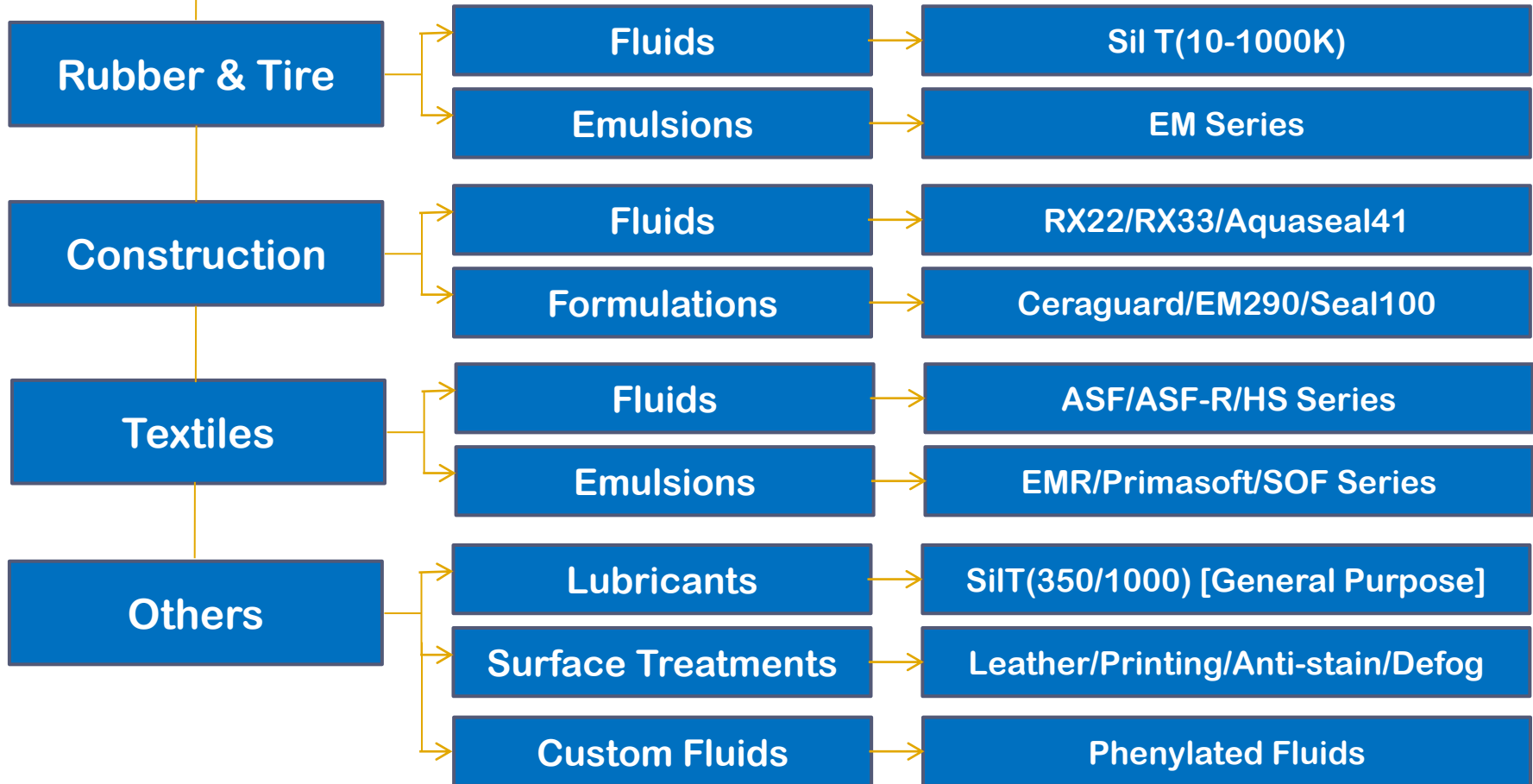
Product Segments



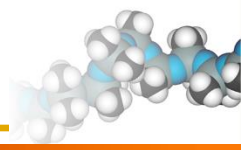
PRODUCT RANGE



Product Segments



ELKAY PETROCHEMICAL SOLUTIONS



ELKAY PETROCHEMICAL DEFOAMERS



Foam is always an issue in any chemical unit.

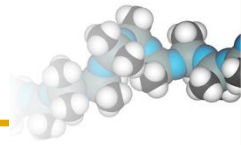
For the petrochemical industry, from drilling to refining to shipping – foaming leads to losses in efficiency, mechanical issues and fouling.

Elkay foam control solutions allow foam control in multiple places in petrochemical units to increase productivity and save our customers money.

SUPER PERFORMANCE

EXCELLENT ECONOMY

SILICONES IN PETROCHEMICALS



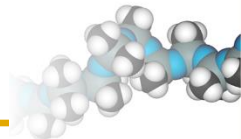
- In the upstream, where foaming occurs during oil depressurization to heavily foaming drilling muds, ELKAY's defoamers help maintain output capacity and destroy troublesome foam.



- In the refinery, where foaming occurs in certain crudes to heavy oil foaming in vacuum distillation to asphalt processing, our defoamers are highly effective in foam control to ease handling and improve productivity. Our silicones dispersed in hydrocarbons are especially effective in delayed coking units to reduce depositing in process lines



- In auxiliary units, such as high speed sulphur solidification and other powder processing units, our products increase equipment performance and reduce product dusting



FLUID DEFOAMING PRODUCT RANGE

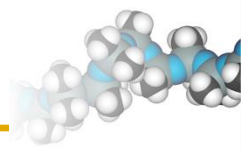
LIQUIDS	Recommended Concentration (ppm)	Type	O G	V D	C D	C P	A P	D C
LK SIL 100T (1000)	20	Non-aqueous, PDMS		o		o	o	
LK SIL 100T (12500)	20	Non-aqueous, PDMS	o	o				
LK SIL 100T (60000)	10	Non-aqueous, PDMS	o	o	o			o
LK SIL 100T (100000)	10	Non-aqueous, PDMS	o					o
LK SIL 100T (300000)	5	Non-aqueous, PDMS	o					o
LK SIL 100T (2000000)	5	Non-aqueous, PDMS	o					o

- Effective at lower temperatures and above 100°C
- 100% active fluids
- Clear, viscous fluids
- Diluents are common aliphatic/aromatic solvents
- Shelf Life of 24 months

EXTREMELY EFFECTIVE

LOW DOSAGE

*OG (Oil Gas Separation), VD (Vacuum Distillation), CD (Crude Distillation), CR (Cracking), AP (Asphalt Processing), DC (Delayed Coking)



RELEASE AGENT PRODUCT RANGE

Creates the perfect pastilles for dust free and efficient handling of sulphur

LIQUIDS	Recommended Concentration	Type
LK 7030	Bath (2.5-3%), Spray (10-15%)	Pale yellow liquid, water soluble
LK 7307	Spray (10-15%)	Pale yellow liquid, water soluble

- Excellent leveling and release agent for refinery sulphur pastillization units
- Prevents sticking of sulphur pastilles to processing equipment
- Provides an inert, homogenous, clear and shear stable solution in water
- Easy to spray due to low viscosity
- Allows for a uniform shape and dust free pastillization process
- Solutions in water can wet all standard equipment surfaces
- Allows for longer continuous operation
- Reduces equipment maintenance and cleaning costs

INCREASES UPTIME

REDUCES DUSTING



COMPOUND/EMULSION PRODUCT RANGE

PRODUCT	Recommended Concentration (ppm)	Type	Stability	E T	D M	C D	A P	G T
LK AF514	20	Compound				o	o	
LK AF5140	20	Compound			o	o	o	
LK AF630	60	30% Emulsion		o				
LK AF630ABM	60	30% Emulsion	Base Stable	o				
LK AF644	60	Emulsion	Acid/Base Stable	o	o			o

- Effective at lower temperatures up to 50°C
- Easy to use defoaming solutions

EXTREMELY EFFECTIVE

LOW DOSAGE

*ET (Waste Water Treatment), DM (Drilling Muds/Fluids), CD (Crude Distillation), AP (Asphalt Processing), GT (Gas Treatment)

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