

AkzoNobel Surface Chemistry

Mining Chemical Solutions

Together we optimize performance

AkzoNobel 



Winning together – delivering optimized performance for your mineral processing needs

Together we help you maximize your recovery and quality. Whether you require a customized or standard product, AkzoNobel will deliver the essential solutions you need, when you need it. With over 50 years of surface chemistry experience and industry partnerships, AkzoNobel is committed to providing you with sustainable solutions. Contact us to discuss how we can support you.

Products mentioned are trademarks of the AkzoNobel group and registered in many countries.

Mining Application	Products	Key Benefits	
Calcite	Silica flotation	ACD 82808-N	Fine particle tolerant
		Armoflote 18	For less complex easy to float systems
Lilafлот 1590		Proprietary formulation; fine particle tolerant	
Lilafлот 730		Proprietary formulation: for coarse particle size feeds	
Lilafлот 1400		Proprietary formulation; efficiency booster for Armoflote 18 and Lilafлот 1590	
Decolorizing flotation	Lilafлот 1597	For reverse flotation of Fe containing minerals such as pyrite	
	Lilafлот GS13	For reverse flotation of hydrophobic minerals minerals such as graphite, talc	
Iron Ore (magnetite, hematite, itabarite)	Silica flotation	Armoflote 930	Low tox collector for silica flotation
		Lilafлот 811M	For mixed silicate ores (quartz to non-quartz silicates)
		Lilafлот 821M	For mixed silicate ores (quartz to non-quartz silicates)
		Lilafлот D826M	For mixed silicate ores (quartz to non-quartz silicates)
Dephosphorization	Atrac 1563	For hard process water and iron oxides containing phosphate	
	Atrac 2600	Iron oxides containing phosphate	
Phosphate	Direct flotation	Atrac 1563	A fatty acid booster or collector in complex difficult to float ores and/or hard process water
		Atrac 2600	Syntetic anionic collector for improved selectivity
		Atrac 912	Proprietary formulation; primary collector for igneous deposits containing carbonates
		Berol 8313	Formulation for complex difficu to float or and/or hard process water
		Phospholan PE65	A fatty acid booster in complex difficult to float ores and/or hard process water; performs over wide temperature arrange including <15°C
	Silica flotation	Armoflote 930	For use over a wide range of process water qualities
		Lilafлот 450	For use over a wide range of process water quailities
		Lilafлот 850M	For use over a wide range of process water qualities
	Carbonate flotation	Atrac 50N	Proprietary formulation; for low pH systems
	Potash	Sylvite flotation	Armeen HT
Armac HT			Dispersible in water; performs at ambient to slightly elevated temperatures (approx 18–30 °C)
Armeen M			Coarse recovery booster at elevated brine temperatures (>28°C)
Lilafлот FAB53			Suitable for systems with elevated brine temperatures (>30°C)
Armeen HF			Coarse recovery booster or collector at elevated brine temperatures (>28°C)
Slime flotation		Ethomeen HT/40	Slime flotation collector
		Phospholan PE 65	Slime flotation collector
Halite flotation	Armoflote 619	Suitable for reverse flotation of carnallite	

Mining Application	Products	Key Benefits	
Barite	Silica flotation	Armoflote 17	Suitable for reverse flotation where impurities are silicates
Feldspar	Direct flotation	Lilafлот OT 45	Suitable for fluoride systems
		Armeen T	Suitable for fluoride systems
		Duomeen TDO	Suitable for fluoride and non-fluoride systems
Magnesite	Silica flotation	Armoflote 18	Suitable for reverse flotation of less complex ores where impurities are silicates
		Lilafлот 20193L	Developed for reverse flotation of complex ores where impurities are silicates
Spodumene	Silica flotation	Armeen T	Performs in reverse flotation where impurities are silicates
		Atrac 2600	Direct flotation of spodumene
Wollastonite	Direct flotation	Armoflote 18	Performs in direct flotation process where impurities are carbonates
		Duomeen T	Performs in direct flotation process where impurities are carbonates
Zinc Oxide	Direct flotation	Armeen C	Suitable for direct flotation
Kaolin	Direct flotation	Armeen C	Suitable for direct flotation
		Armeen OL	Suitable for direct flotation
Fluorspar	Direct flotation	Berol 8313	Suitable for direct flotation
Pyrochlore / Niobium	Direct flotation	Armacflote 109	Suitable in direct flotation of pyrochlore systems
		Lilafлот 1400	Proprietary liquid formulation; suitable in direct flotation of pyrochlore systems
Scheelite	Direct flotation	Berol 8313	Developed for direct flotation
Potash	Anticaking	Armeen HT	Suitable for anticaking treatment for load out, storage and/or transport
		Armac HT	Dispersible in water; suitable for anticaking treatment for load out, storage and/or transport
		Armeen T	Suitable for anticaking treatment for load out, storage and/or transport
Other salts	Anticaking	Armofo AC-59 P	Suitable for anticaking of NH4-Nitrate
		Petro AGS	Suitable for K-Nitrate, NH4-Nitrate, NH4-Sulfate and Urea anticaking
Process Aids	Dewatering	Berol 1007	Aid for mineral dewatering
		Berol 1008	Aid for mineral dewatering
	Dispersion	Alcosperse 149	General purpose mineral dispersant
		Alcosperse 747	Suitable for dispersion of hydrophobic particles
	Flocculation	Floc-Aid 19	Suitable for flocculation of neutral to slightly anionic particles
		Floc-Aid 34	Suitable for flocculation of neutral to slightly anionic particles
	Frothers	Lilafлот SB9	Suitable for phosphate, potash etc
Internal Additives	Petro AGS	Increases granular integrity for DAP, MAP and NH4-Nitrate	
	Petro P	Increases granular integrity for SSP, TSP and NH4-Nitrate	

Planet Possible: Our commitment to doing more with less

Our success as a company depends on sustainability. At AkzoNobel we have sharpened our focus on sustainability by reviewing our sustainability risks and opportunities against global trends and evaluating how they will impact our customers by 2020. We express the outcome as our Planet Possible approach to sustainability. It's our commitment to creating more value from fewer resources.



We know only too well that our future hinges on our ability to radically do more while using less.

- More innovation, less traditional solutions;
- More renewable energy and materials, less fossil-based;
- More value chain focus, less introverted thinking.

Employing our new strategy of radical efficiency, we work with customers and suppliers to open infinite possibilities to a finite world. Learn more at www.akzonobel.com/planetpossible

Number 1

is our position in the Materials industry group on the 2017 Dow Jones Sustainability Index.

At least 20%

is the share of revenue we aim to achieve by 2020 from products with a sustainability advantage for customers.

More than 25%

is the reduction we aim to achieve in our cradle-to-grave carbon foot print per ton of product by 2020.

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www.akzonobel.com/mining

AkzoNobel creates everyday essentials to make people's lives more liveable and inspiring. As a leading global paints and coatings company, we supply essential ingredients, essential protection and essential color to industries and consumers worldwide. Backed by a pioneering heritage, our innovative products and sustainable technologies are designed to meet the growing demands of our fast-changing planet, while making life easier. Headquartered in Amsterdam, the Netherlands, we are present around the globe, while our portfolio includes well-known brands such as Dulux, Sikkens, International and Interpon. Consistently ranked as a leader in sustainability, we are dedicated to energizing cities and communities while creating a protected, colorful world where life is improved by what we do.