

Group Presentation 2020

ABOUT US

We are one of Europe's leading companies for research and transformation of bentonites into high added-value ideas and solutions.

Our main strength and capabilities are control of **raw materials**, **process technology**, **production localization** around the world, product **applicative expertise**, integrated with a **customer oriented approach** and **logistic services**.

OUR PHILOSOPHY

We are committed to providing our collaborators with the tools and professional opportunities that will **secure continuity and economic stability** for them and their families into the future. We aim to achieve this by maintaining **a transparent company policy** focussing on the enhancement of diverse cultures, aptitudes and skills in a context of shared results.



Innovation

We continuously carry out research and development into innovative solutions that can improve our customers' product performance in terms of quality and efficiency. That is why a large part of our annual profits are reinvested in the ongoing innovation of processes, products and services.



Sustainability

Everything we do, from the mining, transport and processing of the minerals to the environmental rehabilitation phase, is carried out in a way that is mindful to the environment and that protects the health and safety of our collaborators and of the communities living close to our mining and production sites.



Sharing

We are fully committed to the sharing of our ethical values with a spirit of participation, involving all those who work with and for our company.



Integrity

We strongly believe that real prospects for shared growth can only exist in a context where relations with our stakeholders are based on respect, trust and transparency.

HISTORY



1922

Carlo Laviosa established in Livorno the **Shipping Agency**, for the commercialization of coal imported from England.



1950

Ernesto Laviosa begins the production of foundry bentonites.



1984

Ernesto Laviosa acquires the plant in da Vinci Street in Livorno where he begins the production of **cat litter** and installs the **GCL plant**



1994

Giovanni Laviosa transfer the **organoclay plant** in Livorno.



2009

Giovanni Laviosa, together with the Koneru family, starts the **Laviosa Trimex** for the production of industrial bentonites in the Pundi plant



2013

Giovanni Laviosa acquires 5% of the Chinese supplier of organoclays **Zhejiang Hongyu New Materials** to strengthen global market presence.



2017

Giovanni Laviosa increases the shareholding in the French company to 100% and changes its name to **Laviosa France**.



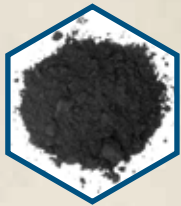
2020

Giovanni Laviosa acquires 100% of France Litiere, cat litter manufacturer in France.

The Beginnings

Company's Growth

The Internationalization Process



1933

Carlo Laviosa acquires a plant in Livorno and begins the production of **micronized coal**



1968

Ernesto Laviosa begins the production of new bentonite and coal based products in the **new plant of Galvani Street** in Livorno



1992

Giovanni Laviosa concentrates the cat litter production in **Minersarda** and founds the **Laviosa Promasa** for the transformation of **bentonites for foundry additives**.



2008

Giovanni Laviosa starts the **Laviosa Sanayi ve Ticaret** and begins the production of industrial bentonites in Fatsa



2010

Giovanni Laviosa starts the **Laviosa MPC** specialized in the production of bentonite based additives for tunnelling & drilling



2016

Giovanni Laviosa increases the shareholding in the Indian company to 100% and changes its name to **Laviosa India**.



2018

Giovanni Laviosa acquires 100% of the French **Damolin Etrech** specialized in Cat Litter

KEY FIGURES



Headquarter
Livorno, Italy



Consolidated Turnover
85 Mio €



Yearly material processed
> 350.000 tons



Headcount
310



Customers
1.100+



Global presence
80+ countries



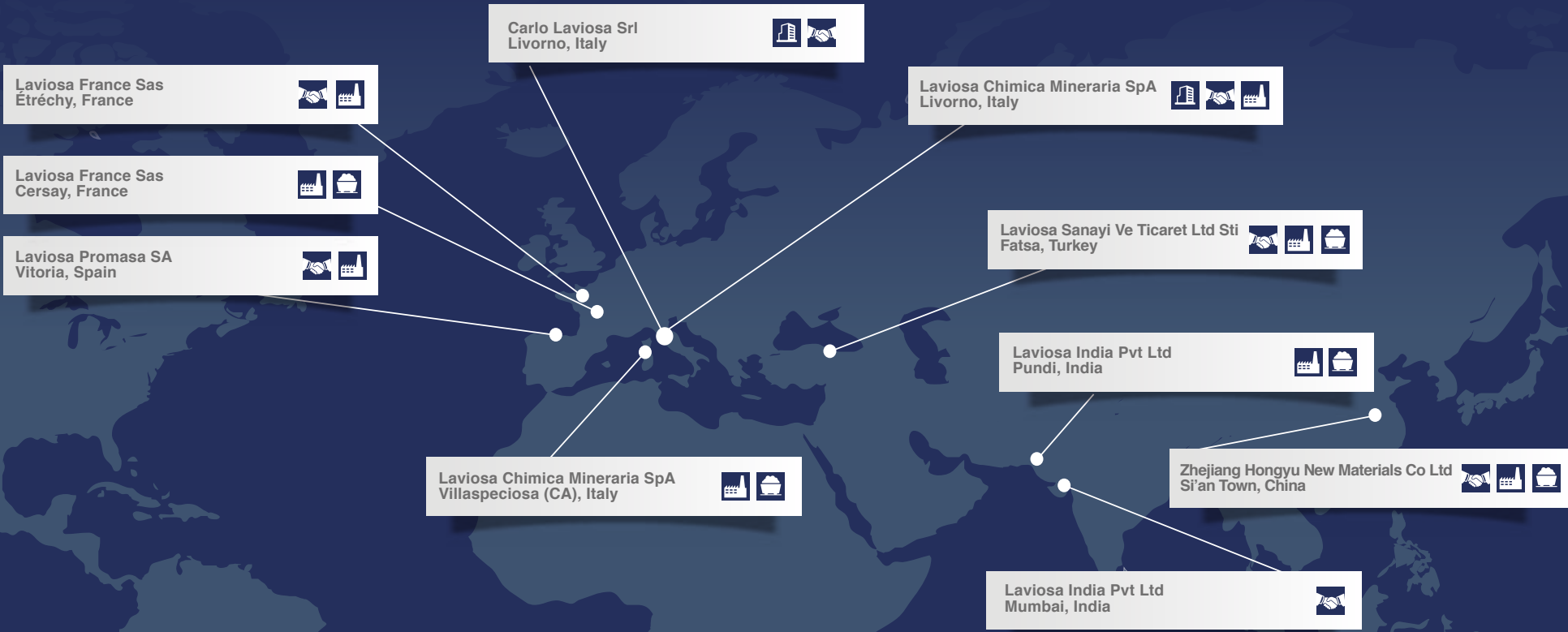
Product classes
50+



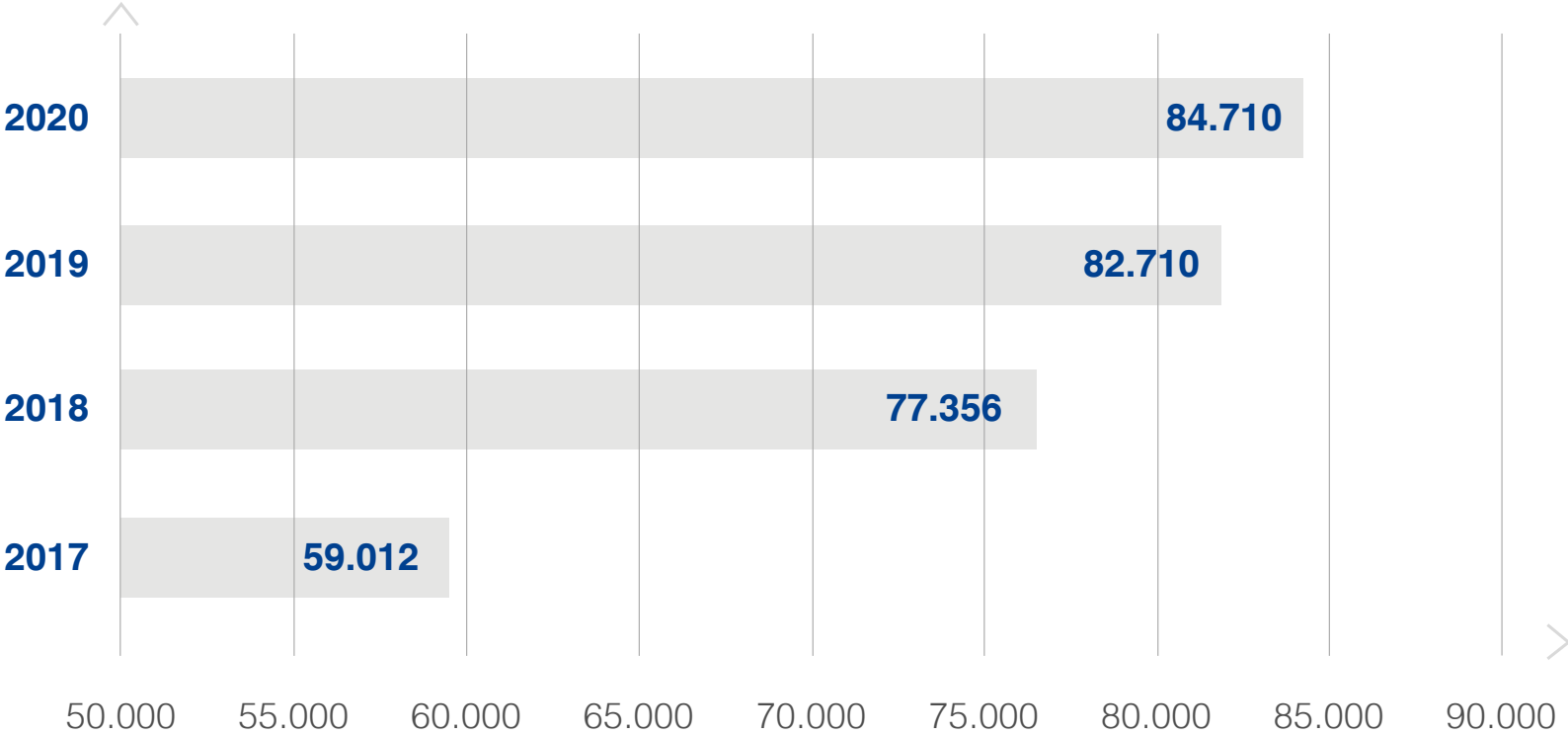
Product codes
800+

OUR PRESENCE WORLDWIDE

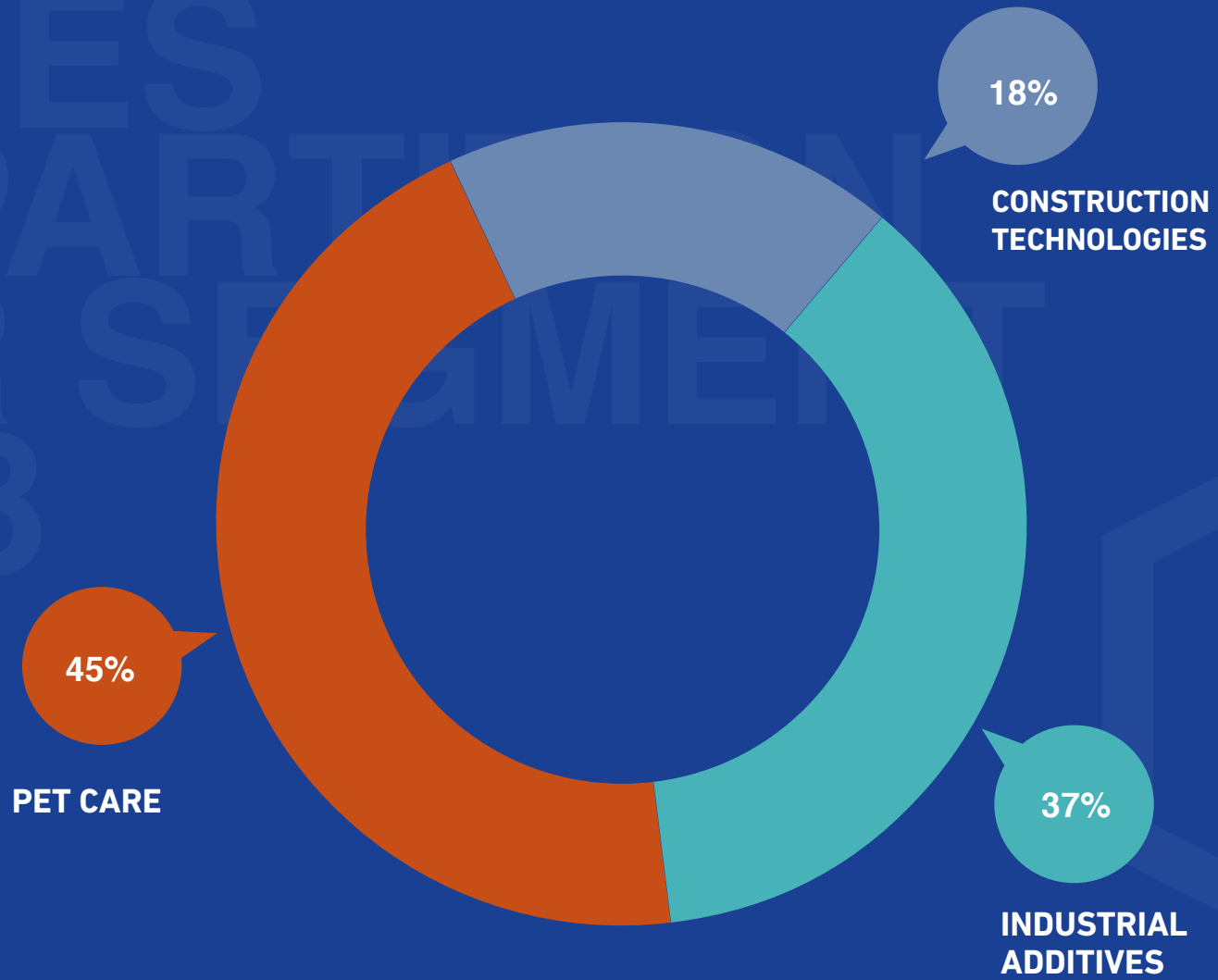
Head quarter Plants Sales offices Mines



TOTAL CONSOLIDATED SALES (IN K€)

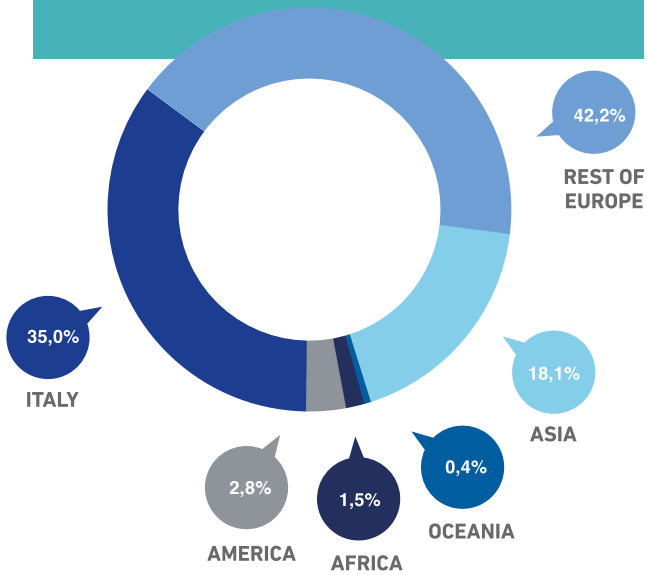


SALES
REPART
PER SE
2018

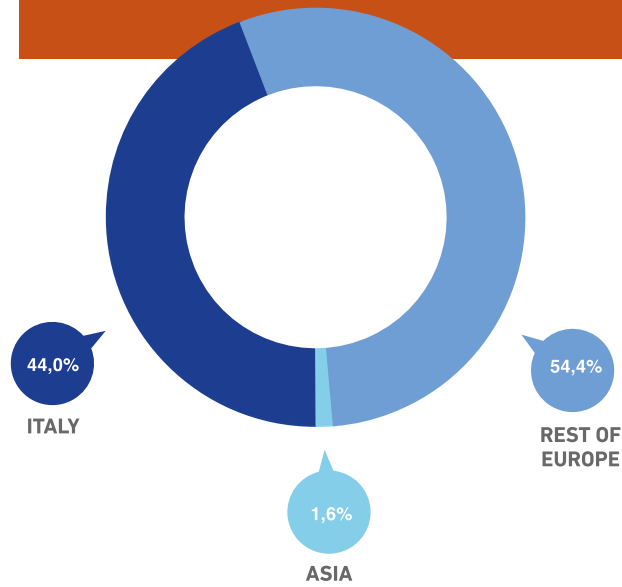


SALES PER GEOGRAPHIC AREA

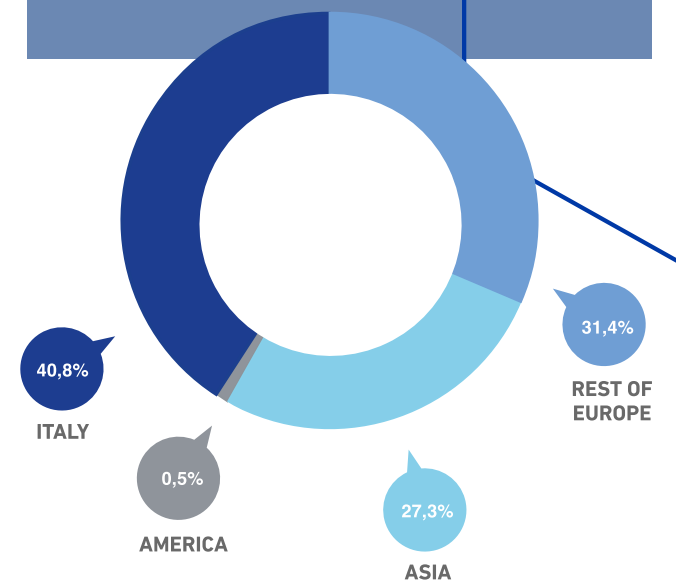
INDUSTRIAL ADDITIVES



PET CARE



CONSTRUCTION TECHNOLOGIES



RESEARCH & DEVELOPMENT

Structure & Organization



Quality System & Procedures Management

guarantees production of the documentation to support the definition of procedures for the most important company processes and their flows.



Raw Material Product and Processing Management

is an activity related to the scouting of new raw materials and their processing and adaptation to the specific applications.



Product Management

consists of a group of technical experts who are fully familiar with product applications and their designated markets.



Prospecting for new Raw Materials

strategic activity for the company, which aims to guarantee the reliability and uniqueness of its product range.



Quality Control Management

Our product is traced, step by step from the mine to the end user with each step being carefully checked against standards and specifications.

MINING

We are securing our **bentonite reserves worldwide**: Sardinia, Turkey, India and France, are our own mining locations close to our industrial operations.

Mining requires long term vision and planning to guarantee the raw materials qualities and volumes requested by the customer and markets served today and long term.

For this reason the company continuously invest in new explorations, drillings, quality and quality assessment of new and existing reserves to **secure 100%** of our current and future **raw material needs** for the **next 15 years**.



Santa Maria III Mine During mining operations

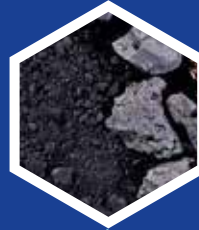


Santa Maria III Mine During restoration

Mining operation is always done by experts in the respect of the applicable laws, environmental and stakeholders respect.

Appropriate land restoration is secured by scrupulous and meticulous operations both before and after excavation.

Raw materials



Purification & mixing

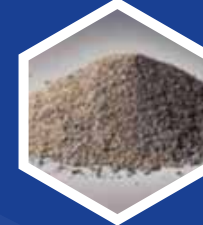
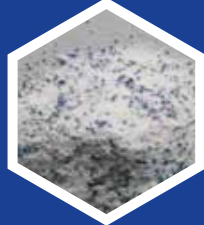
Additives

Activation

Drying

Milling

Sieving



POWDER Products

Foundry, Civil Engineering,
Paper, Ceramics,
Water Treatment, Beverage,
Household & PersonalCare,
Construction, Feedstuff
Bleaching Earths.

**GRANULATED /
COLORED**

Beverage, Household &
PersonalCare

**ORGANOPHILIC
Products**

Coatings, Plastics

GCL Products

Landfills, Waterproofing
Technologies

**ADSORBENT /
GRANULAR**

Cat Litters, Industrial
Adsorbents

BUSINESS

Foundry



Bentonites and Additives for Green and Shell moulding

Coatings, Plastics & Construction



Rheological Additives for Solvent and Water Coatings



Nanoclays for Nanocomposites

Civil Engineering



Special Foundations, Grouting, Horizontal Drilling, Vertical & Deviated Drilling, Polymers

Lining & Waterproofing Technologies



Geosynthetic Clay Liners for environmental protection and construction waterproofing



Bentonite for absorbing hydrocarbons

Pets care



Cat Litters and Hygiene Products for cats & dogs

Performance Additives

Household & Personal Care



Animal Feed & Agriculture



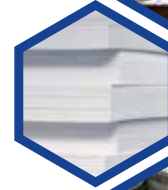
Beverage



Fats and Oil Bleaching



Paper



Tannery



Waste Water Treatment



Other Industrial Additives



Ceramic




FOUNDRY

**Steel
Cast Iron Non-ferrous
Foundries**

Applications	Product Description	Main Brands
Green moulding process	Bentonite	Bentocol®
	Bentonite and coal dust mix	Premix
	Ready to use sand	Sandbond
Shell moulding process	Starch	Pretap
	Precoated sand	Precoated Sand LH
Resin-sand casting process	Chromite sand	Cromite LCM
	Silica sand	Silicatec
	Olivine Sand	Olivina LCM
Recarburazing	Granular coke and graphite	Graphicol
Slag removal	Granular perlite	Descoril
Product Solutions	Releasing agent	Licopodio
	Graphites	Amorphous 70C Silver 90C
	Sealing stripes	Ital Seal

COATINGS, CONSTRUCTION AND PLASTICS

	Applications	Product Description	Main Brands
Rheological Additives	Solvent Borne Coatings	Waxes Organoclays	 LAVIOSA VISCOGEL™
	Water Borne Coatings	Purified Bentonite	Laviothix®
	Construction		Laviokoll®
Nanocomposites	Cable & wires		
	Tyres	Nanoclays	Dellite®
	Packaging		

DRILLING, TUNNELLING & CIVIL ENGINEERING

	Applications	Product Description	Main Brands
Special Foundations	Cut off Walls Barrettes Drilled piles & Micropiles Diaphragms Walls	Bentonite Polymers Plugging agents	Bentosund® Fluidstop® Vinilmud® Geostop® Laviostop® Laviodis® Termoplast®
Horizontal drilling and Tunnelling	Tunnelling Microtunneling HDD	Bentonite Polymers Chemicals Plugging agents	
Vertical drilling and Deviated Wells	Oil & Gas and Deep Geothermal Drilling Water Well Drilling Mineral Exploration	Bentonite Polymers Chemicals Plugging agents	
Grouting	Backfill Grouting Grouting for Geothermal Probes Earthing Compound Grouting for Screeds	Polymers Baryte Bentonite Grouting Mix	

LINING AND WATERPROOFING TECHNOLOGIES

	Applications	Product Description	Main Brands
Environment	Landfills and Mining	GCL	Modulo Geobent®
	Transportation		
	Hydraulics	Sealing bentonites	Laviobent
Buildings	Construction Waterproofing	GCL	Edilmodulo®
		Sealing bentonites	Laviobent
		Sealing paste	Laviomastic
		Waterstop	Lavioseal®
Absorbents	Pollution control	Bentonites	Adsorb®








PERFORMANCE ADDITIVES

	Applications	Product Description	Main Brands
Household & Personal Care	Powder detergents Liquid / creamy formulation	White & colored speckles bentonite	Detercol® Detersoft® Detercal® Laviothix®
Beverage	Wine Fruit Juice	Powder and granulated bentonite	Enobent® Spherobent®
Paper	Retention Pitch control	Powder bentonite	Laviofloc® Papercol® Laviopur®
Waste Water Treatment	Waste water treatment	Powder bentonite Bentonite based compounds	Laviopur®
Ceramics	Bodies Glazes	White powder bentonite	Laviothix® AGB®
Animal feed & Agriculture	Feedstuff Agriculture	Powder / granular bentonite	Globalfeed® AGB®
Miscellaneous	Fats and Oil Bleaching Tannery Bituminous Solutions	Powder bentonite	KristalKlear® AGB® Laviothix®

CAT LITTERS, ACCESSORIES & PET CARE PRODUCTS

Products	Type of Product	Material	Brands
Bentonite Litters	White Clumping Clumping Micro Clumping Standard	Bentonite	Lindocat® SignorGatto®
Sepiolite & Urasite Litters	Premium Standard Standard for rodents & reptiles	Sepiolite Urasite	
Absorbent Litters	Light Biodegradable Hygienic Sand	Silica Gel Wood Pellet & Recycled Paper Marine Grit	Lindocat®
Accessories & Pet Care Products	Litter Deodorant Cleansing Wipes Absorbent Mats		

MANAGEMENT SYSTEMS & CERTIFICATIONS

	Certificate	Companies / product families	First issue date
	UNI EN ISO 9001:2008	Laviosa Chimica Mineraria SpA	2000
	UNI EN ISO 14001:2004	Santa Maria III mine (Sardinia)	2006
	SA 8000:2008 Social Accountability	Laviosa Chimica Mineraria SpA	2006
	CE product certification	Geosynthetics Clay Barriers range	2007
	Administrative Responsibility L.231	Laviosa Chimica Mineraria SpA	2008
	SEDEX	Cat Litter	2010
	HACCP	Bentonite for beverage treatments	2011
	FAMI-QS	Bentonites as feed additive	2012
	Kosher certificate	Bentonites for beverage treatments	2011
	Customs Certification	Laviosa Chimica Mineraria SpA	2011
	White List Participation Release L170/2012-A -III	Laviosa Chimica Mineraria SpA	2015

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www.laviosa.com



www.lindocat.it



www.signorgatto.it



www.arya.pet

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