ALTENE *
TECHNOLOGIES

THE TECHNOLOGY OF ALTENE PRODUCTS

THE HIGH QUALITY ANTI-CORROSION COATING SYSTEMS FOR UNDERGROUND PIPELINES DIRECTLY APPLICABLE "IN LINE" OVER THE DITCH OR "IN PLANT"

Since early in the seventies, ALTA developed a series of solutions aimed to meet the most sophisticated requirements of its customers in the field of anti-corrosion coatings for gas, water and oil pipelines of any diameter.

With more than thirty years of experience in this field, ALTA has earned today the qualification to propose a wide range of ALTENE systems, suitable to all kind of ground and operating conditions.

ALTENE systems are formed by the best combination between primer, anti-corrosion coating tapes (inners) and mechanical coating tapes (outers). Besides "inner-outer" systems ALTA developed "monotapes" for particular uses such as repair of coating of pipelines and coating of valves and pipe fittings.

The ALTENE corrosion protection systems are satisfactorily used by the most important oil, gas and water companies both for the coating of new pipes as well as "re-vamping" of the existing pipes during in service mainteinance.

The ALTENE corrosion protection systems also offer economical and flexible solution for the protection of welding joints and for the coating of underground tanks.

The polymeric composition of the tapes forming the ALTENE systems and their "cold" application ensure a "clean" product. In other words, the ALTENE systems are friendly for the environment and safe for the human health, and at the same time they offer better quality when compared to the bituminous based systems.

The ALTENE corrosion protection systems have been accepted and recognized after having passed the strictest standards of the control institutes worldwide. The ALTENE corrosion protection systems have been recognized for their high quality, proven long-term declaration, ease of application - both manually and mechanically- and their operation under extreme operating conditions.

ALTENE corrosion protection systems are at the vanguard on the worldwide market and meet the requirements of all customers.





ANTI-CORROSION SYSTEMS FOR OIL, GAS AND WATER PIPELINES, PETROCHEMICAL AND INDUSTRIAL PLANTS

IN PLANT COATING SYSTEMS

		Colour		t %	Thi	ckness	p	ess	DΩ	ø	<u> </u>	
Altene System	Adhesion Promoter	Anti-corrosion Tape	Mechanical Protection Tape	Solids Content	mil	mm	Recommended Overlap	Coating Thickness mm	Max operating temperature °C	Test Methods	Other available Thicknesses mills	Properties and Use
P19 100-20 205-30 206-30	black	black	grey or black white	19	20 30 30	0,508 0,762 0,762	1"	2,032	+60℃	ASTM D 1000 ANSI-AWWA C214-95	15-18-25-30-40 15-20-25	High anti-corrosion protection, excellent mechanical resistance. Particularly suitable for new water pipelines.
(1) P16 122-30 122-30	black	black	white	20	30 30	0,762 0,762	50 %	3,048	708+	ASTM D1000 DIN EN 12068	20- 25S 20- 25S	High anti-corrosion protection, high shear resistance, high U.V. resistance. Suitable for medium-large diameter pipelines for the transportation of all fluids.
(2) P16 HT TP 1823-32 122-20	black	black black	white	20	32	0,813	50 %	2,641	+80℃	ASTM D1000 DIN EN 12068	35 20-25S	High anti-corrosion protection, excellent shear resistance, high I.V. resistance, high resistance to cathodic disbondment. The biadhesive anti-corrosion tape ensures a strong adhesion between the layers. Suitable for small-medium diameter pipelines for the transportation of all fluids.

1-2 Systems homologated by DVGW according to DIN EN-12068 standard

For further information regarding systems or products and in case of specific projects please contact the ALTA ALTENE technical service



IN PLANT COATINGS

ALTENE systems ensure maximum guarantee of coating because they confer strong adhesion to the metal and to themselves and high strong resistance to the cathodic disbondment.

The properties of the polyolefin backing of ALTENE systems, beside the high conformability, provide a high mechanical resistance, which allows to apply a strong tension during their application, resulting in a tenacious and homogeneous coating.

ALTENE systems ensure a long term performance of coating, thanks to the high electrical and chemical resistance to both acids and alkalis attacks and thanks to their high mechanical properties, which protect the pipe from damages during the transportation and the installation.

ALTENE systems ensure a high economical advantage because they match the highest productivity with very low investments and produce a minimum waste. These systems can be applied in all environmental working temperatures, and thanks to their flexibility they are continuously adaptable to the different ground conditions.

ALTENE systems ensure the protection of the environment and the human health thanks to the stability of their components and to their non-polluting nature.

Water pipe (Acqueduct) diam 1600 mm. Altene Rp2 plant system



ALTENE systems ensure the greatest anti-corrosion protection of welding joints on the pipelines, because they exclude every possibility of blisters and humidity formation between the metal and the tapes.

ALTENE system are "cold" applied under prevailing environmental temperatures of the products and the surface, thus allowing operation without the inconveniences associated with inadequate or excessive pre and/or post heating, which often jeopardize the whole quality of the "hot applied coating (thermo-shrinking, thermo-setting products, etc.), often connected with dangerous or unhealthy working conditions.

ALTENE systems ensure long life of the coating during the time, thanks to the stability and resistance of their components to the electrical, chemical, biological and mechanical attacks.

ALTENE systems ensure a quick and efficient application of the coating tapes, regardless of the morphology and orography ground conditions, the types of pipelines used and the prevailing environmental temperatures.



ALTENE *
TECHNOLOGIES

ANTI-CORROSION SYSTEMS FOR OIL, GAS AND WATER PIPELINES, PETROCHEMICAL AND INDUSTRIAL PLANTS

SYSTEMS FOR THE COATING OF JOINTS (J), ELBOWS (E), FLANGES (F), VALVES (V) AND SPECIAL PIPELINES (SP)

		Colou	r	nt %	Thic	ckness	per	Jess	βg	sp		ole		
Altene System	Adhesion Promoter	Anti-corrosion Tape	Mechanical Protection Tape	Solids Content %	mills	mm	Recommended Overlap	Coating Thickness mm	Max Operating Temperature °C	Test Methods		Other available Thicknesses mills		Properties and Use
J-E-SP			-			use		-			J-E-SP	J-E	J-E	High anti-corrosion protection, high
<u>P 25</u> 310-35	black	black		27	35	0,889	50%	1,78	+50℃	ANSI AWWA C 209	40	50	60	adhesion, excellent conformability. Particularly suitable for joints, elbows of new pipelines, or pipelines to be repaired, coated with bytumen or coaltar designed for transportation of fluids at low temperatures.
J-E-SP-F-V			4		9	use	_	-			J-E	J-E	J-E	High anti-corrosion protection, high
<u>P 27</u> 300-25 205-15	black	black	black or white	27	25 15	0,635	50%	2,032	+60℃	ASTM D 1000	35 15	40 15	50 15	riigh anti-corrosion protection, nigh adhesion, excellent conformability. Particularly suitable for joints, elbows of new pipelines, special parts easy to be coated.
J-E			-	_		use	8-	•			J-E			
<u>P 16HT</u> 122-25 BHT 122-25 BHT	black	black	white	20	25 25	0,635 0,635	50%	0,254	+100℃	ASTM D1000	30 BHT 30 BHT			High anti-corrosion protection, high resistance to continuous operating temperatures, high shear resistance, high resistance to cathodic disbondment
J-E-F-V			•	_		use	-				J-E			High anti-corrosion protection, high and
<u>P 27</u> 340-40	black	v.	vhite	27	40	1,016	50%	2,032	+60℃	ASTM D1000	35			immediate adhesion, excellent conformability, high U.V. resistance. Particularly suitable for joints, elbows, where mechanical protection is not required.
J-E-SP			-	_		use	-	-			J-E	J-E		
<u>P 16</u> <u>122-20</u> 122-20	black	black	white	20	20 20	0,508 0,508	50%	2,032	+80℃	ASTM D1000 DIN EN 12068	25 S 25 S	30 30		High anti-corrosion protection, high shea resistance, high U.V. resistance.
J-E-SP			-			use	-	-			J-E-SP	J-E-SP		High anti-corrosion protection, high shea
(1) P 16 TP1822-20 122-20	black	<u>black</u> black	white	20	20 20	0,508 0,508	50%	2,032	3°08+	ASTM D1000 DIN EN 12068	25 S 25 S	30 30		registance, high U.V. resistance, high resistance, high resistance to cathodic disbondment, the biadhesive anti-corrosion tape ensures high adhesion between the layers.
J-E-SP			4			use	-	-						High anti-corrosion protection, excellent
(2) P 16 HT TP1823-32	black		ellow grey	20	32	0,8128	4 layers	3,25	908+	ASTM D1000 DIN EN 12068				shear resistance, high U.V. resistance, high resistance to cathodic disbondment, the biadhesive anti-corrosion tape ensures high adhesion between the layers.
			4			use		-						
J-E										ASTM D1000				High anti-corrosion protection, high shear

1-2 Systems homologated by DVGW according to DIN EN-12068 standard

For further information regarding systems or products and in case of specific projects please contact the ALTA ALTENE technical service

ALTENE * TECHNOLOGIES

ANTI-CORROSION SYSTEMS FOR OIL, GAS AND WATER PIPELINES, PETROCHEMICAL AND INDUSTRIAL PLANTS

"IN LINE" COATING SYSTEMS OF NEW PIPELINES, RE-VAMPING AND RE-CONDITIONING OF EXISTING COATINGS



"IN LINE" COATINGS RE-VAMPING AND RE-CONDITIONING

ALTENE systems ensure an easy and fast coating application during "in service maintenance" of the pipes when the original coating is being restored.

ALTENE systems ensure an extremely advantageous "cost-benefit" comparison because they match a fast and accurate work with very low investments.

ALTENE systems ensure the restoration of the coating protection at the highest level, regardless of the morphological ground conditions, the diameters and the lengths of the pipes and the coating protection system previously used.

ALTENE systems ensure the long life of the coating protection during the time, thanks to the stability and resistance of their components to electrical, chemical and mechanical attacks.

		Colou	r	nt %	Thic	kness	per	ness	ing C	sp	ble	
Altene System	Adhesion Promoter	Anti-corrosion Tape	Mechanical Protection Tape	Solids Content	mil	mm	Recommended Overlap	Coating Thickness mm	Max Operating Temperature C	Test Methods	Other available Thicknesses mills	Properties and Use
<u>P 25</u> 310-40	black	black		27	40	1,016	50%	2,032	+40℃	ASTM D 1000	35-50-60-65-70	High anti-corrosion protection. Particularly suitable for re-vamping and re-conditioning of existing pipelines, previously coated with bitumen or coaltar. It can also be used in combination with mechanical protection tape 205, on request
P 19 109-25 205-25	black	black	black or white	19	25 25	0,635	50%	2,54	+60℃	ASTM D 1000	15-20-30-40-50-60 15-20-25	High anti-corrosion protection, excellent mechanical resistance. Particularly suitable for new pipelines and for pipelines to be re-conditioned. It can be used in combination with all the existing coatings.
P16 122-25 210-25	black	black	black	20	25 25	0,635 0,635	50%	2,54	7000+	ASTM D 1000 GOST - STANDARD		High anti-corrosion protection, excellent mechanical resistance. Particularly suitable for new pipelines and for pipelines to be re-conditioned. It can be used in combination with all the existing coatings and in all the c
P16 122-25 S 122-25 S	black	black	white	20	25 25	0,635 0,635	50%	2,54	+80℃	ASTM D1000 DIN EN 12068	20 -30 20-30	High anti-corrosion protection, high shear resistance, high U.V. resistance. Suitable for the transportation of all fluids, and in particular for new pipelines.
(1) P16 HT TP 1822-25 122-25 S	black		black black white	20	25 25	0,635 0,635	50%	2,54	+80℃	ASTM D1000 DIN EN 12068	20-30 20-30	High anti-corrosion protection, excellent shear resistance, high U.V. resistance, high resistance to cathodic disbondment, the biadhesive anti-corrosion tape ensure high adhesion between the layers. Suitable for the transportation of all fluids, in particular for pipelines to be reconditioned. Highly compatible with all the existing coatings.

System homologated by DVGW according to DIN EN-12068 standard

For further information regarding systems or products and in case of specific projects please contact ALTA ALTENE technical service



ANTI-CORROSION SYSTEMS FOR OIL, GAS AND WATER PIPELINES, PETROCHEMICAL AND INDUSTRIAL PLANTS

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SPECIAL SYSTEMS

ALTENE MONOTAPE SYSTEMS

With the "Monotape" name, Alta Altene presents a series of high technical products. They have been designed based on the long experience and the information received from the designers and the end users aimed to obtain a single product which contains all the technical characteristics necessary to ensure a homogeneous and high quality coating in all the environmental and climatic conditions, in accordance with the strictest international standards. For this reason, inside the composition of ALTENE Monotape system, besides Primer, there is only one tape. Each Monotape has been studied to ensure the greatest performances, adhesion, plasticity, cathodic, mechanical and dielectric resistance, according to each specific need.

The ALTENE Monotape Systems, opportunely chosen, allow to facilitate the activities on the plant, make easier the operation of the workers and guarantee a perfect homogeneity of the coating.

HIGH TEMPERATURE ALTENE SYSTEMS

HIGH TEMPERATURE ALTENE Systems have been designed to ensure an excellent anti-corrosion protection on pipelines with high conditions of continuous operating temperature, keeping their typical cold-application.

HIGH TEMPERATURE ALTENE Systems ensure the duration of the coating protection thanks to the special polymers, rubbers and additives by which their backing and adhesives are formed of. They guarantee the performance during the time of the anti-corrosion protection and assure excellent impact, penetration and shear resistance.

ALTENE THREE-PLY SYSTEMS

ALTENE Three-ply Systems ensure innovative technical characteristic thanks to the blend of the special polymers they are formed of.

ALTENE Three-ply Systems ensure a matchless degree of anti-corrosion coating thanks to their adhesion and sealing-effect both on the metal walls and on surfaces and on the tapes corrections the custom.

ALTENE three-ply ensures today the satisfaction of the quality requirements which will come to light tomorrow.



	17	Colou		٦t %	Thic	kness	peg	ness	ing C	sp	
Altene System	Adhesion Promoter	Anti-corrosion Tape	Mechanical Protection Tape	Solids Content	mil	mm	Recommended Overlap	Coating Thickness mm	Max Operating Temperature °C	Test Methods	Properties and Use
<u>P25</u> <u>PV2005-60</u> PV 2060-11	black	black	white	27	60 11	1,524 0,2794	1" 55%	2,082	+ 50 C	ASTM D1000	High anti-corrosion protection, high mechanical and U.V. resistance. Tapes with a special backing composed of PVC, polyvinyl and polyoleline. Particularly suitable for cast iron pipes and for water transportation
P16HT 122-25 HT 210-25 HT	black	black	black	20	25 25	0,635 0,635	50%	2,54	+ 92 C	ASTM D1000 DIN EN 12068	High anti-corrosion protection, excellent shear resistance, high U.V. resistance. Suitable for the transportation of all fluids, and in particular for new pipelines.
<u>P16HT</u> <u>122-25 BHT</u> 210-25 HT	black	black	black	20	25 25	0,635 0,635	50%	2,54	+100 C	ASTM D 1000 GOST -STANDARD	High anti-corrosion protection, excellent shear resistance, high U.V. resistance. Suitable for the transportation of all fluids and in particular for new pipelines.
P16HT TP1822-30 BHT 122-30 HT	black	black	white	20	30 30	0,762 0,762	50%	3,04	+92 C	ASTM D1000 DIN EN 12068	High anti-corrosion protection, excellent shear resistance, high U.V. resistance. Suitable for the transportation of all fluids and in particular for new pipelines.
<u>P319</u> <u>395-25</u> 207-20	black	black	white	19	25 20	0,635 0,508	50%	2,28	+121 C	ASTM D1000 DIN EN 12068	High anti-corrosion protection, excellent shear resistance, high U.V. resistance. Suitable for the transportation of all fluids and in particular for new pipelines.
(1) P16 TP 1822-50 TP1823-20	black		black black yellow black	20	50 20	1,27 0,508	50%	3,55	+80℃	ASTM D1000 DIN EN 12068	High anti-corrosion protection, high resistance to cathodic disbondment, high shear resistance, high U.V. resistance, the biadhesive anti-corrosion tape ensures high adhesion between the layers. Suitable for the transportation of all fluids, in particular on pipelines to be reconditioned, compatible with all the existing coalings.
(2) P16 TP 1822-50 TP1823-32	black		black black yellow black	20	50 32	1,27 0,8128	50%	4,16	+80℃	ASTM D1000 DIN EN 12068	High anti-corrosion protection, high shear resistance, high U.V. resistance, high resistance to cathodic disbondment, the biadhesive anti-corrosion tape ensures high adhesion between the layers. Suitable for the transportation of all fuids, in particular on pipelines to be reconditioned, compatible with all the existing coalings.
		by DV	black yellow black		32	0,8128					the layers. Suitable for the transportation of all fuids, in part on pipelines to be reconditioned, compatible with all the ex

1-2 Systems homologated by DVGW according to DIN EN-12068 standards

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ANTI-CORROSION SYSTEMS FOR OIL, GAS AND WATER PIPELINES, PETROCHEMICAL AND INDUSTRIAL PLANTS

		SPECIAL PRO	DUCTS
PRODUCTS series	Colour	Standard Thicknesess mills mm	Use
330	black	30-40-60 0,762-1,016-1,524	Tape with primer integrated. Specific for areas where high polluting almospheric agents are present, or where the presence of solvents or vapors is fordbidden
394	black	30-40-60-70 0,762-1,016-1,524-1,778	Tape with a polypropylene compound backing. Designed for all the applications. High and immediate adhesion and excellent conformability. Particularly suitable for repairs or whore an immediate backtilling after coating is required.
3100	black or grey	78 1,9812	Mastic tape reinforced with a plastic grid. Particularly slutable for re-conditionings. High adhesion and high shear resistance
AL4	aluminium	0.762	Tape with aluminium backing, to be used as a final protection for the anticorrosion tapes applied on above ground pipelines, high U.V. and atmosferic agents resistance
PV 2005	black white blue	42-45-50-55-60-65 1,08-1,14-1,27-1,40-1,52-1,65	Tape with a PVC, polyvinyl and polyolefin backing. High impact and penetration resistance. Recommended for general coatings and particularly suitable on concrete weighted surfaces.
PV 2005 H	black	50-80-65 1,27-1,52-1,65	Tape with a PVC, polyvinyl and polyolefin backing. High inpact and penetration resistance. Recommended for general coatings to be hand applied
320	black. White, blu and yellow on request	30-35-40-50-65 0,762-0,889-1,06-1,27-1,65	Highly plastic and conformable tape to the part to be coated, high and immediate adhesion, it can be used in combination with Altene mastics and P27 primer, Paricularly suitable for coating of valves, flanges and irregular shaped objects

PRODUCTS series	Colour	Standard Thicknesses mills mm	Use			
400	black white	10 -12	Plastic tape for general uses, in particular for coating o small-diameter pipelines where a particular			
	yellow	0,260 - 0,305	conformability is required.			
	black white	11 -13	Tape for general use, in particular for the coating of			
500	yellow	0,280 - 0,330	small-diameter pipelines, where a good mechanical resistance is required			
TP	black	15	Plastic tape for girth welding joints of pipelines with			
1822.15TB	black	0.381	medium-high operating temperatures, or coating of irregular shaped objects			
300	black	15	Plastic tape for girth welding joints of pipelines with normal operating temperatures, or coating of irregula			
300	Maur	0,381	shaped objects			
NE 301	black	35	Elastic tape for girth welding joints of pipelines with medium-high operating temperatures, or coating of			
NE 301	DidOK	0,89	irregular shaped objects			
Gas Tape	yellow	40 micron	Marking tape for pipe, bearing the name of the fluid			
	<u> </u>	0,04	contained inside the pipe.			
200	black		Polyetylene tape with excellent mechanical properties. Used as a rock-shield			

		MASTIC	es
PRODUCT	Colour	Density g/cm ³	Lise
series	Coldur	packaging	Use
MN		~ 1,6	
IVIN		band 3 x 40 mm 25 mt long	Ideal for profiling around irregular shaped objects
MN 1000		~ 1,3	ideal for filling large voids

		PRIIVI	EH		
PRODUCTS	Colour	Solids Content %	Use		
series	Colour	flash point ℃	030		
P19	black	19	Adhesion promoter, suitable for machine applications of new pipelines or smooth surfaces. Offered with a very		
1 10	Didoit	-12 (+ 4)	low V.O.C or V.O.C. free		
		20	Adhesion promoter, suitable for machine or hand		
P 16	black	-12(+4+24)	applications at medium-high temperatures. High shea. resistance		
DAGUT	Tell and	20	Adhesion promoter, suitable for machine or roll		
P16HT	black	-12 (+24)	applications at medium-high temperatures. Excellent shear resistance		
P25	black	27	Adhesion promoter. It can be applied by spray or roll i		
1 20	Diddit	-12 (+24)	combination with bitumen-based Altene inner-tape.		
Do7	Tell a state	27	Adhesion promoter. Particularly suitable for application		
P27	black	-12 (+24)	by roll on re-vamping and on irregular shaped objects Offered with low -V.O.C and V.O.C. free		
P319	black	19	Adhesion promoter, suitable for machine application a highest temperatures on new pipelines or smooth		
P319	DIAGK	-12	surfaces.		
D007		27	Adhesion promoter, suitable for application by roll at		
P327	black	-12	highest temperatures on new pipelines or irregular shaped objects		

530	(O		WRAPPING MACHINES	HOLL SIZE		
MODEL	SERIES	APPLICATION	WHAPPING WACHINES	WIDTH	CORE	STRUCTURE
1	so.	LOADING	Use	DIAMETER		
10	Σį	HAND OPERATED	Wrapping machine particularly versatile. Suitable for	from 2" to 9"	41-76,2	SIDE LOADING
R	JOLLY	SIDE WITH SHOULDER OPENING	coating small quantities of various-diameter pipes with medium dimensions (from 6" to 12") in particular in line	220		CHARRIOT
	-	HAND OPERATED	Wrapping machine with excellent performances to be	from 2" to 4"	41-76,2	4.0000000000000000000000000000000000000
GG 41 - GG 76	99	SIDE	used in line, over the ditch or in plant, in case of rotating pipes, for coating small-diameter pipelines and joints (from 2" to 12")	170		SIDE LOADING CHARRIOT
		HAND OPERATED	Wrapping machine with excellent performances to be used in line or over the ditch, for coating medium-	from 4" to 6"	76,2	SIDE LOADING
ЕМТ6	CWI	SIDE	diameter pipelines (from 10" to 14") and all kind of joints equal or bigger than 12"	220	1	CHARRIOT
A1-A2-A3-A4	_	HAND OPERATED	Wrapping machine with excellent performances, to be used in line or in plant for coating straight pipelines with	from 4" to 9"	76,2	ROTATING HALF-
A5-A6	AVT	SIDE	a diameter from 4" to 60" for large projects . Motorized A3 series machines are available on request	310		RING WITH HINGE LOCK DEVICE
AS10-AS20- AS30 12 A15-AS2 2		HAND OPERATED	Wrapping machine with excellent performances, to be	from 4" to 6"	76,2	POTATING HALF- RING WITH HINGE LOCK DEVICE
		SIDE	used in line or in plant for coating straight pipelines with a diameter from 2" to 14" for large projects and where it is necessary to contain the dimension of the ditch	310		
1411	W.	N.A.		N.A.	N.A.	ROTATING RING
Multimatic	AVT/M	N.A.	Machine for the removal of the existing coating	N.A.		



AVT Series Mod. A.. Wrapping Machine CWI series Mod EMT6



ALTA is recognized worldwide as a leading company in the production of corrosion protection coatings for gas, water and oil pipes. Founded in 1973 from a co-operation between ENI Group and the most advanced American technology, ALTA faced and solved during the years the most demanding problems related to the realization of coating application of pipelines of worldwide prominence, the methane pipeline Algeria-Italy and the re-building of most important lines of Russia federation, thus attaining excellent technical results and the satisfaction of all its customers. The evolution of the production technology of ALTA is based on the philosophy of a continuous improvement, thanks to an ongoing commitment in investing in R&D in its testing labs at Bagnoregio. For more than thirty years ALTA and ALTENE products are on a worldwide scale synonymous of advanced technological solutions due to their reliability and flexibility.



Purchased by SIMA Group in 1996 ALTA develops within the boundaries of the Group, strong technological and productive synergies. In 2006 SIMA Group transfers know-how, plants, products, trademarks and patents to ALTA ALTENE.

ALTA ALTENE main purpose is to grow further the reputation gained during the years and continue the development to the process of quality, to meet the constantly changing market requirements.

To choose ALTA ALTENE means to decide to have a partner sensitive to the changing requirements of the market and keeping constantly in step with the technological evolution.

ALTA PRODUCTION TAKES PLACE IN AN ENVIRONMENT UNDER TOTAL QUALITY CONTROL.

ALTA ALTENE Srl - ANTICORROSION SYSTEMS FOR PIPELINES AND INDUSTRIAL PLANTS

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