Innovation A permanent challenge for our R&D team

TOTAL R&D teams innovate everyday to comply with the most severe constraints





Do not hesitate to tell us about your requirements, if the solution does not yet exist...

we will create it !

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Argentina	+54 11 44 54 50 00	Great Britain	+44 19 77 63 62 00	Netherlands	+31 70 31 80 409
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Austria	+43 616 46 11 0	Hungary	+36 23 50 75 23	Poland	+48 22 435 13 61
Belgium	+32 2 288 99 33	India	+9122 5640 7700	Portugal	+351 21 723 08 00
Brazil	+55 11 3848 26 00	Iran	+98 21 2205 99 61	Russia	+7 095 937 37 84
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SPECIAL GREASES FOR CAR MANUFACTURING



Our technology to serve your creativity





TOMORROW'S GREASES FOR TODAY'S CARS TOTAL OFFERS YOU HIS KNOW-HOW

N 3945, N 30730, N 30645, GPMT 89, RLT LC, S 509

MARSON SY2, ALTIS SH2, CERAN LT

Suitable greases

Colors table	Characteristics	Wipers	Steering system Steering racks Linkages	
	Mechanical stability		les	
	High velocity		Seats	
	Thermic stability			
	Low friction coef		Seat ajusters Others parts	
	Multi purpose	arter		
	Extreme pressure	Overrunning clutch	Body parts	
	Electrical Conductivity	Gear box Switch	/ Various parts	
N Range	Product description		0	400 350
3524	Lithium-Calcium soap / Semi Synthetic oil			300 250
30943	Lithium-Calcium soap / Semi Synthetic oil			200
30945	Lithium-Calcium soap / Semi Synthetic oil			150
31295	Calcium soap / Biodegradable oil			100
3373	Lithium Complex soap / Mineral oil			50
30645	Polyurea thickener / Synthetic oil			A
30730	Lithium complex soap / Synthetic oil			
81181	Silicon grease			
81315	Lithium complex soap / Synthetic oil		ETAM	
3924	Lithium-Calcium soap / Semi Synthetic oil			
3942	Lithium-Calcium soap / Semi Synthetic oil			
3945	Lithuim-Calcium soap / MoS2		WASSENGED	
4128	Calcium soap / Mineral oil		Doors &	k trunk
Others	Due duet de carintieur	ical systems	Look	<s< th=""></s<>
LT C	Lithium soap / Mineral oil		Miscelleaneous	
9702	Lithium soap / Synthetic oil		Clutch release	
ERAN LT	Calcium Sulphonate Complex thickener / Synthetic oil		Dual mass fly	
PMT 89	Calcium soap / Mineral oil	CV parts	Belts systems	
ULTI HT2	Lithium complex soap / Mineral oil	Wheels bearings	s Braking system	
ATERMELF EP				
TIS SH2	Polyurea thickener / Synthetic oil			
ARSON SY2	Lithium soap / Synthetic oil			
TRELF 31	Calcium soap / Synthetic oil			1
OMULTIS SEP2			SUITABLE GREASES	_
ERKAN N4128	Calcium soap / Mineral Oil SPRAY	Seats	N 3524, N30943, N31295, CERAN LT	_
EF4632	Lithium soap / Mineral oil	Steering system	N3924, N3942, MARSON WR2	
PECIALE 420	Lithium soap / Mineral oil	Doors & trunk	VITRELF 31, N3924, MULTIS EP2, F9702	_
509	Lithiumsoap / MoS2	Wippers	SPECIALE 420, SEF 4632, STATERMA SP2	_
ARSON WR2	Lithium soap / High viscosity mineral oil	Starter	STATERMELF EP2, F9702	
TATERMA SP2	Bentonite / Synthetic oil	Electrical systems	STATERMA SP2, BIOMULTIS SEP2, MARSON SY2, F9702	-
		Body parts	N 4128	
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Transmissions

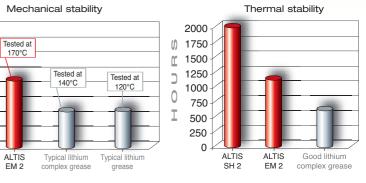
Miscelleaneous

Advanced technologies

To meet your requirements TOTAL is working on innovative solutions

POLYUREA

TOTAL ALTIS Range whose main advantages are : Long Life time at high temperatures Excellent mechanical stability and shear resistance • Extended operating range



CALCIUM SULPHONATE COMPLEX TOTAL CERAN Range

whose main advantages are : • Outstanding water resistance • Outstanding antiwear properties Excellent mechanical stability and shear resistance

