

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 !

Africa	+33 1 41 35 26 53	Germany	+541 957 07 60	Middle East	+971 4 294 58 00
Argentina	+54 11 44 54 50 00	Great Britain	+44 19 77 63 62 00	Netherlands	+31 70 31 80 409
Asia/Pacific	+65 6879 22 00	Greece	+30 2 10 544 05 40	Norway	+47 22 01 95 59
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
China	+8621 6352 0055	Italy	+39 02 54 068 700	Spain	+34 91 722 08 40
Czech Rep.	+420 2 2489 0511	Korea	+822 6386 5011	Sweden	+46 40 38 36 50
Denmark	+45 45 81 3701	Luxembourg	+352 480 481-1	Switzerland	+41 22 306 66 00
France	+33 1 41 35 40 00	Mexico	+52 33 3812 23 00	USA	+19 088629300



TOTAL

TOTAL LUBRIFIANTS

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SPECIAL GREASES FOR CAR MANUFACTURING

Our technology
to serve your creativity



TOTAL

TOMORROW'S GREASES FOR TODAY'S CARS

TOTAL OFFERS YOU HIS KNOW-HOW

Suitable greases

Colors table Characteristics

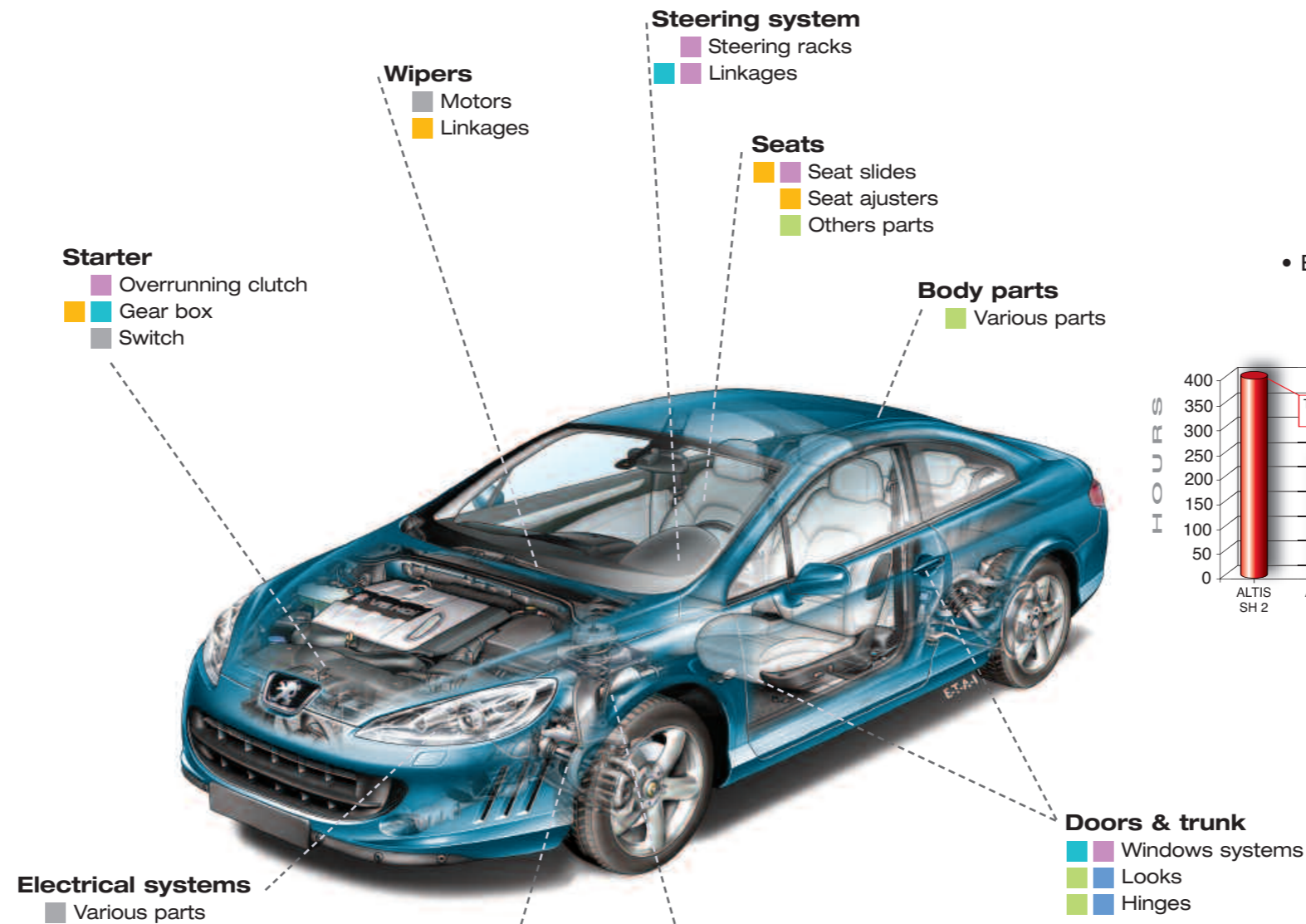
Orange	Mechanical stability
Red	High velocity
Blue	Thermic stability
Purple	Low friction coef
Green	Multi purpose
Cyan	Extreme pressure
Grey	Electrical Conductivity

N Range Product description

N3524	Lithium-Calcium soap / Semi Synthetic oil
N30943	Lithium-Calcium soap / Semi Synthetic oil
N30945	Lithium-Calcium soap / Semi Synthetic oil
N31295	Calcium soap / Biodegradable oil
N3373	Lithium Complex soap / Mineral oil
N30645	Polyurea thickener / Synthetic oil
N30730	Lithium complex soap / Synthetic oil
N31181	Silicon grease
N31315	Lithium complex soap / Synthetic oil
N3924	Lithium-Calcium soap / Semi Synthetic oil
N3942	Lithium-Calcium soap / Semi Synthetic oil
N3945	Lithium-Calcium soap / MoS2
N4128	Calcium soap / Mineral oil

Others Product description

RLT C	Lithium soap / Mineral oil
F9702	Lithium soap / Synthetic oil
CERAN LT	Calcium Sulphonate Complex thickener / Synthetic oil
GPMT 89	Calcium soap / Mineral oil
MULTI HT2	Lithium complex soap / Mineral oil
STATERMELF EP2	Polyurea thickener / Synthetic oil
ALTIS SH2	Polyurea thickener / Synthetic oil
MARSON SY2	Lithium soap / Synthetic oil
VITRELF 31	Calcium soap / Synthetic oil
BIOMULTIS SEP2	Lithium-Calcium soap / Synthetic oil
MERKAN N4128	Calcium soap / Mineral Oil SPRAY
SEF4632	Lithium soap / Mineral oil
SPECIALE 420	Lithium soap / Mineral oil
S509	Lithium soap / MoS2
MARSON WR2	Lithium soap / High viscosity mineral oil
STATERMA SP2	Bentonite / Synthetic oil



VEHICULE SYSTEM	SUITABLE GREASES
Seats	N 3524, N30943, N31295, CERAN LT
Steering system	N3924, N3942, MARSON WR2
Doors & trunk	VITRELF 31, N3924, MULTIS EP2, F9702
Wippers	SPECIALE 420, SEF 4632, STATERMA SP2
Starter	STATERMELF EP2, F9702
Electrical systems	STATERMA SP2, BIOMULTIS SEP2, MARSON SY2, F9702
Body parts	N 4128
Transmissions	N 3945, N 30730, N 30645, GPMT 89, RLT LC, S 509
Miscellaneous	MARSON SY2, ALTIS SH2, CERAN LT

Advanced technologies

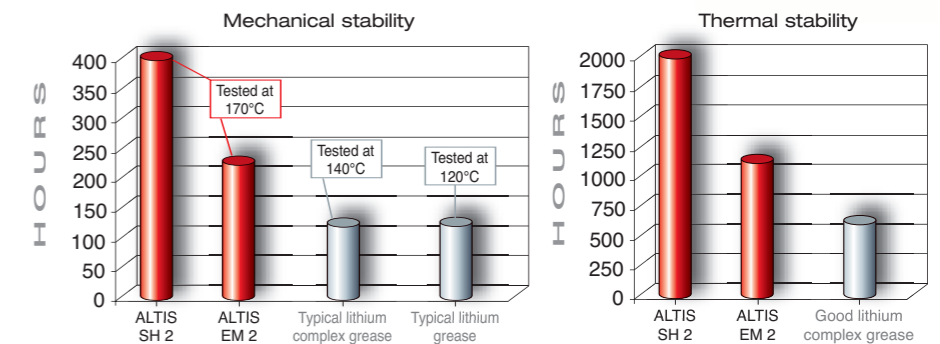
To meet your requirements
TOTAL is working on innovative solutions

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

