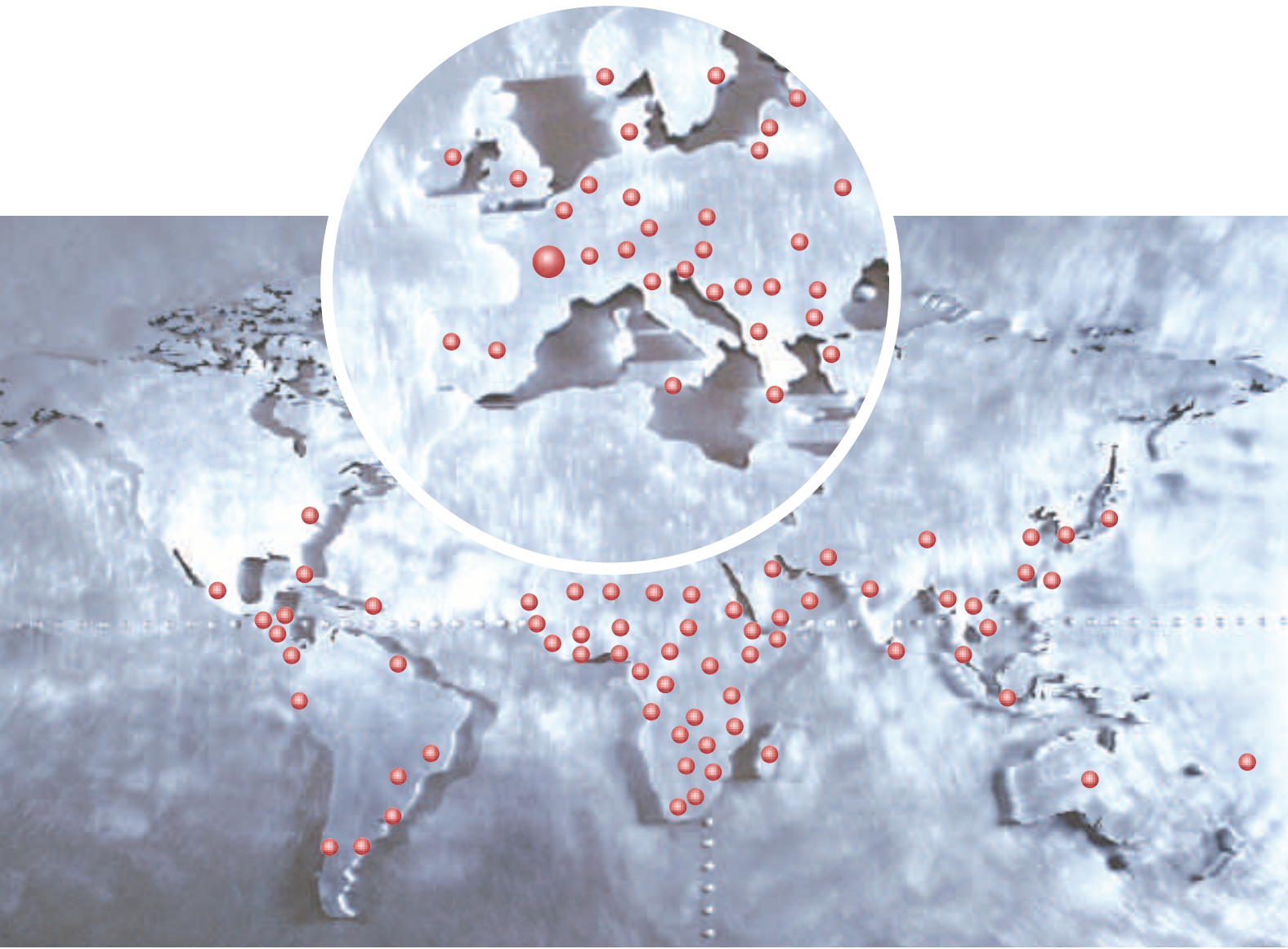


TOTAL CERAN greases for making steel

You will see the difference



To choose the grease TOTAL CERAN adapted
to your requirements, do not hesitate to consult us

Africa	+33 1 41 35 26 53	Germany	+49 30 20 27 60	Netherlands	+31 70 318 04 80
Asia/Pacific	+65 6879 22 00	Great Britain	+44 1923 694 000	Norway	+47 22 01 95 59
Austria	+43 616 46 11 0	Greece	+30 2 10 544 05 40	Poland	+48 22 435 14 00
Belgium	+32 2 288 99 33	Hungary	+36 23 50 75 00	Portugal	+351 21 723 08 32
China	+8621 6352 0055	Inde	+8122 5640 7700	Spain	+34 91 722 08 40
Czech Rep.	+420 2 2489 0511	Italy	+39 02 54 068 700	Sweden	+46 40 38 36 50
Denmark	+45 45 81 3701	Korea	+822 6386 5011	Switzerland	+41 22 306 66 00
France	+0 800 771 522*	Luxembourg	+352 480 481-1	USA	+19 088629300



TOTAL

TOTAL LUBRIFIANTS

16 rue de la République - F 92922 Paris La Défense Cedex
Tél. : 33 (0)1 41 35 40 00 - www.lubricants.total.com

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TOTAL

RECOMMENDED BY ALL MAJOR MANUFACTURERS, THE TOTAL CERAN GREASES ARE THE ULTIMATE RELIABILITY REFLEX

TOTAL Products

- CERAN HVA
 - CERAN HV
 - CERAN WR
- Increased bearing life
Reduced maintenance costs

Continuous casting

- Constraints**
- High temperatures
 - Water present in important quantities
 - Severe stress
 - Dusty surroundings

Cold rolling

- Constraints**
- Important shocks
 - Presence of water
 - Heavy loads

TOTAL Products

- CERAN HV
 - CERAN HVA
- Good extreme-pressure properties
Good pumpability in winter

Ladle necks bearings

- CERAN MS
- High-temperatures and high extreme-pressures grease with the presence of solid lubricants

- Constraints**
- Very high temperature,
 - Considerable stress

Universal joints and open gears

- Constraints**
- Low speeds
 - Heavy loads
 - Hostile environment

- CERAN GEP
 - CERAN MS
- Contain solid lubricants-base greases

Hot rolling

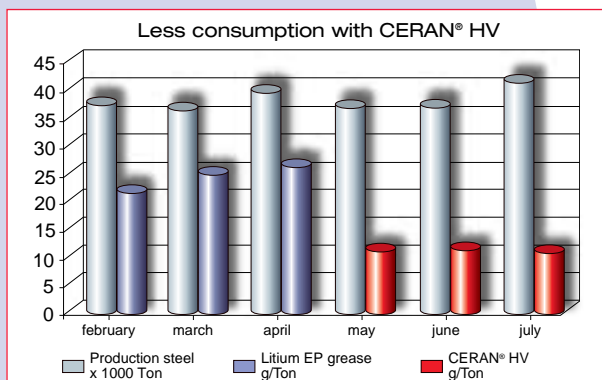
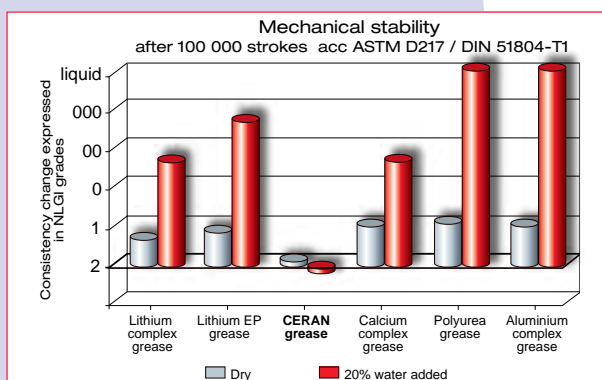
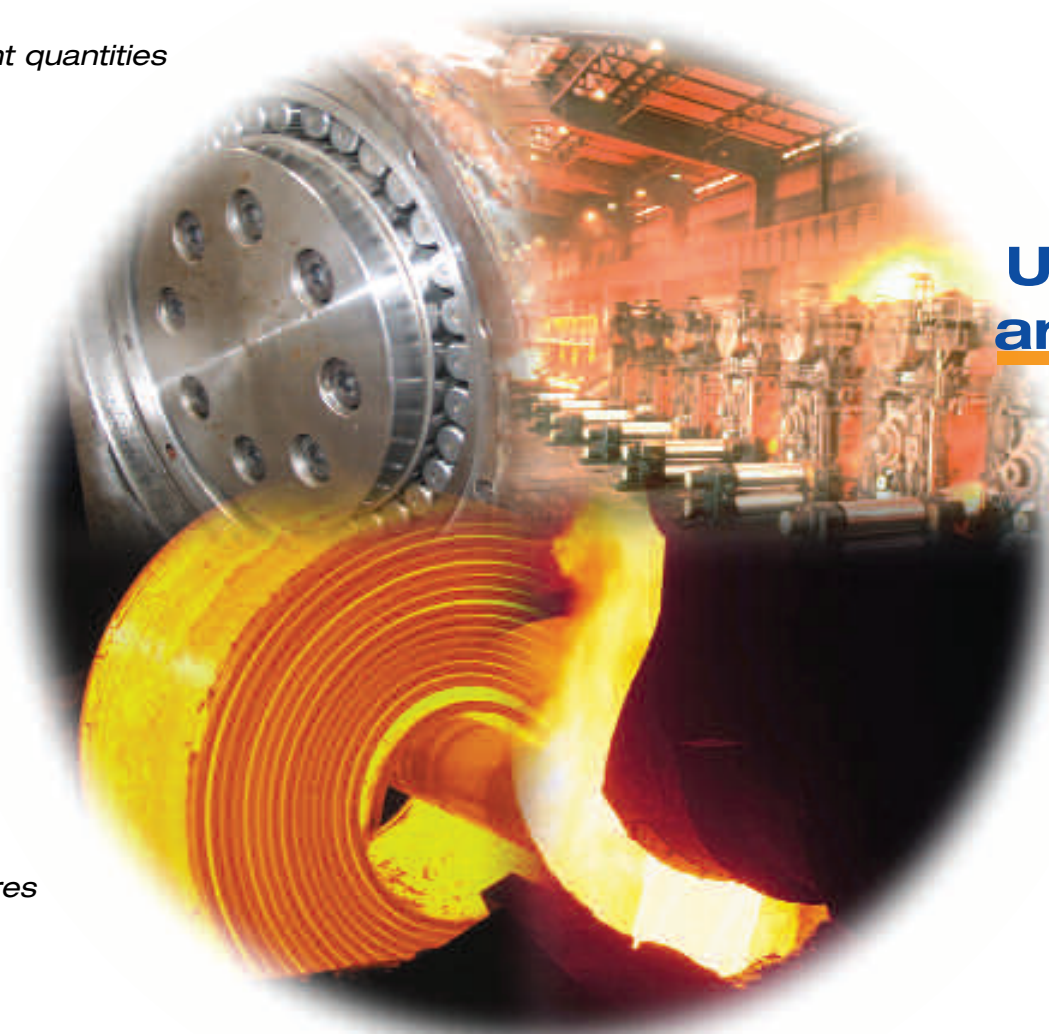
- CERAN HVA
 - CERAN HVS
- Washout resistance
Anticorrosion properties
Resistance to shocks

- Constraints**
- Water present in important quantities
 - Moderate to high temperatures

Planers

- Constraints**
- Low speeds
 - Heavy loads

- CERAN MS
 - CERAN HVS
- High viscosity base oils
Good extreme-pressure additives
Presence of solid lubricants



The advantages of using the TOTAL CERAN greases

- Heavy load resistance
- Protection against wear
- Corrosion resistance
- Substantial reduction in machine stops for maintenance
- Reduced risks of equipment breakage
- Good mechanical stability
- Shear resistance
- Good high-and low-temperatures performance
- Good pumpability
- Thermal stability
- Great oxidation stability and washout resistance

Reliability of tools linked to operational gains

Decrease lubrication frequency and with reduction in grease consumption up to 35%

Increased production rates

ENVIRONMENTAL ADVANTAGES

TOTAL CERAN greases do not contain any heavy metals or components that are harmful to Health or to the Environment