

Saltspray test
DIN 50021SS / ISO 9227



Piston rods for gas springs

CLIN =
Controlled Liquid Ionic Nitriding,
a surface treatment as protection for wear and corrosion stressed parts

EU Directive

2000/53/EG
of the European Parliament
and Council dated 18.9.2000

rules the disposal of used automoblies

which will be employed to the market from 1.7.2003

- lists substances, which are not allowed inside vehicles to be deposited, amongst it hexavalent, toxic chromium (Cr^{6+})
- it is stated an upper limit of 2 g Cr^{6+} per vehicle (former up to 12 g)

CLIN-Technology for hydraulic piston rods



CLIN[®]

against corrosion
and wear



ARCOR[®]
TUFFTRIDE[®]
MELONITE[®]
TENIFER[®]

You Compare!

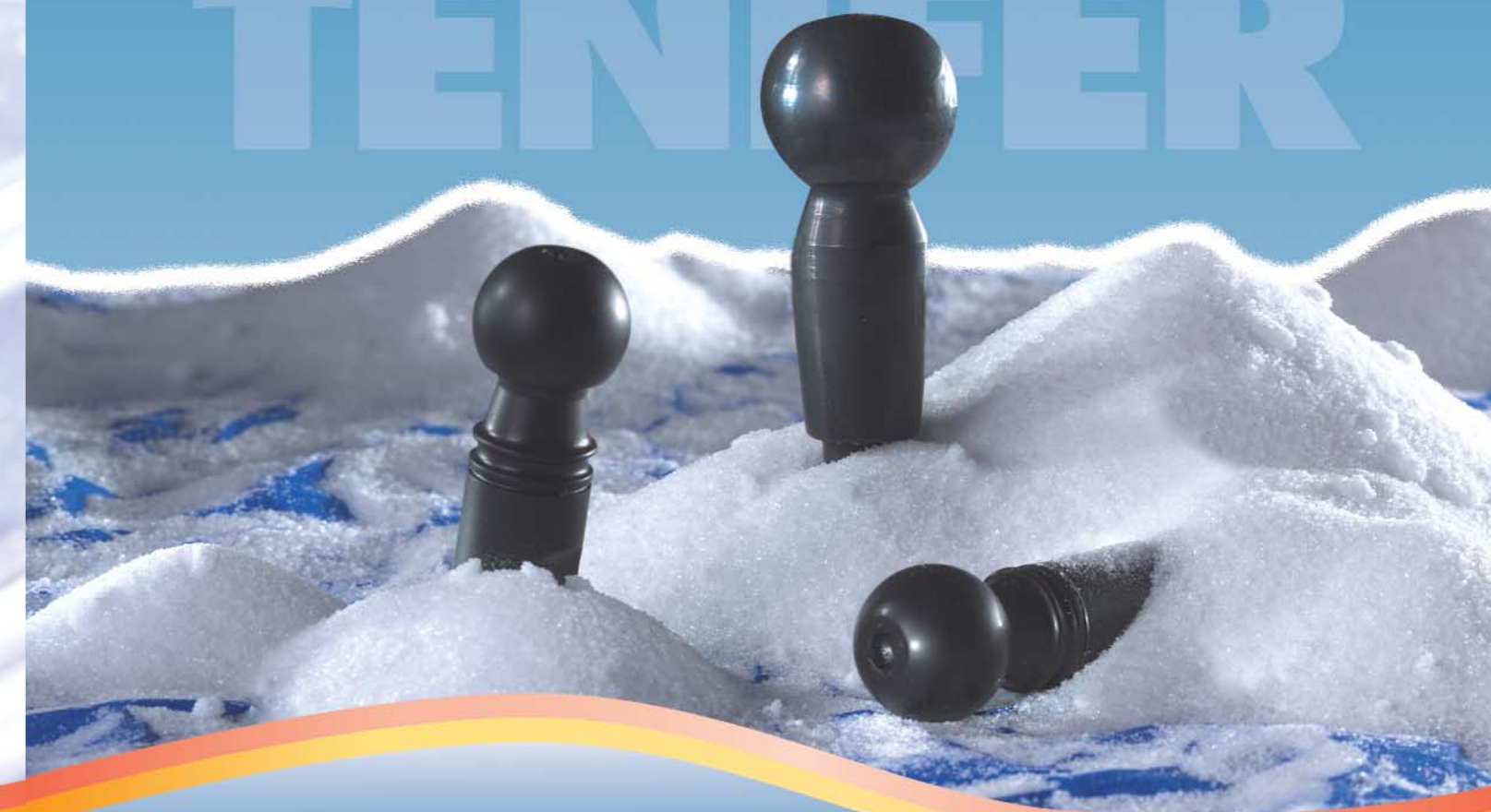
- excellent corrosion protection
- very good wear protection
- no peeling nor flaking because the layer becomes an integral part of the base material
- little friction coefficient
- CLIN surfaces are Cr⁶⁺ free
- decorative black surface
- no grinding after treatment
- CLIN surfaces are more ductile than hard chrom layers
- no micro cracks
- no sub-surface migration of the layer
- very short treatment times
- high reproducibility and constancy
- easy automatizable technology



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CLIN[®]

the alternative
to galvanized
layers



H.E.F. GROUPE