



SUPREME[®] HML COATING

Optimize the lifetime of your seal

SUPREME HML COATING

Protecting liners from wear has always been a challenge. Extensive research has led to the development of an exclusive Lagersmit Hard Metal Layer (HML) to protect the liners. Under strictly controlled production conditions, the HML is sprayed on the chrome steel liner using an HVOF process. The result: a superior coating that minimizes wear and optimizes the lifetime of Lagersmit liners.

LAGERSMIT HML BENEFITS

Using alternative types of chrome steel and coatings like ceramic coatings, seal manufacturers have always tried to lengthen the lifetime of a liner. The advantages are clear: lowering costs by minimizing maintenance to a seal and avoiding the need to pull the shaft to replace the liner.

The Lagersmit HML is a coating that lengthens the lifetime of the whole seal. It enables:

- An improved liner lifetime compared with a ceramic coating
- More effective heat transfer, preventing hardening and ageing of the rubber lip seals

IN DETAIL

Firstly, the HML layer ensures a smooth running surface, minimizing wear of the lip seals. Secondly, the layer virtually is not permeable by water molecules, preventing crevice corrosion which may occur while using ceramic layers. To be exact, the layer forms an extremely well-sealed coating with highly adhesive strength and a porosity of less than 1%. As a third benefit, the HML isn't sensitive to hard particles, such as sand, that embed in the rubber lip seals. This minimizes wear grooves caused by the lip seals. Finally, ceramic coating is more brittle than the HML, which is more ductile. The risk of damaging the coating is thus smaller using the HML layer. The HML can be applied on all non-split chrome steel Lagersmit liners.

REFERENCES

Tests under specific conditions indicate that the lifetime of a liner may be stretched up to 20 years. The real lifetime varies depending on the specific operating conditions of a seal. Customer experiences show that after 5 years of operation the HML coated liners virtually do not show any wear. Specific references are available on request.

*Reach us by calling
+31 (0)88 0216 200*

*or mail to
sales@lagersmit.com*

P.O. Box 176, 2950 AD Alblasterdam
Nieuwland Parc 306, 2952 DD Alblasterdam
The Netherlands

T +31 88 0216 200
F +31 88 0216 249

info@lagersmit.com
www.lagersmit.com