



LUBRICATION TECHNOLOGY

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BERULUB VPN 13 RINGLUB

Sprayable Lubricant for Kiln Live Rings

Description

BERULUB VPN 13 RINGLUB is a sythetic oil based high temperature fluid with a special combination of solid lubricants for the lubrication of floating live rings. It can be used for live rings at any kind of wet or dry process kilns in the Lime, Cement or Processing Industry.

BERULUB VPN 13 RINGLUB does not burn on hot kiln surfaces and forms only very little smoke. It does not tend to drip or fling off that easily. After the evaporation of the synthetic carrier fluid it forms a resistant dry film which still gives effective protection against seizure and wear due to an excellent anchoring on the metal surfaces.

Why BERULUB VPN 13 RINGLUB should be applied?

Dry contact creates higher friction forces and thus higher tensions in the mechanical parts. As a result cracks may form in the brackets, supporting blocks (if equipped with), slide shoes and slide plates. Additionally the wear on the sliding surfaces of this parts will be higher and an earlier replacement may become necessary. An other dangerous result of higher wear is an increased live ring migration. Such an increased migration is the reason for higher stresses in the kiln shell and reduced life of the lining.



Wear and scuffing marks on surfaces of live rings and supporting blocks due to lack of lubricant

Advantages

- Sprayable without further dilution
- Excellent thermal stability
- No formation of tacky residues
- Forms only very little smoke
- Does not burn on the hot kiln surface
- No strong smell
- Does not contain toxic heavy metals or solvents



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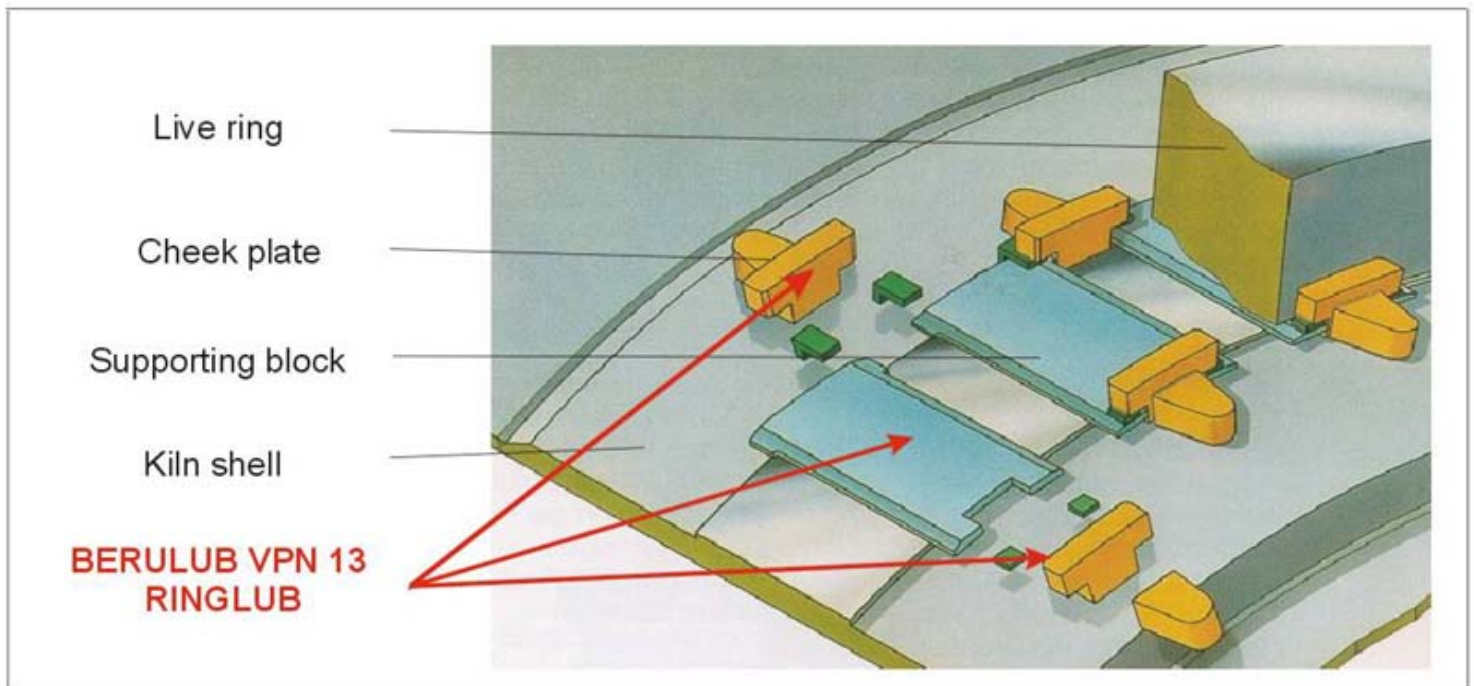
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Where to apply

- On the contact faces between live ring and supporting blocks or kiln shell
- On the contact faces between live ring and side guides or cheek plates



Picture of BERULUB VPN 13 RINGLUB after the evaporation of the synthetic base fluid. The solids inside the material are plated on the surface of the life ring.

How to apply

BERULUB VPN 13 RINGLUB can be applied by brush or Hand spray equipment. By using a BECHEM Hand spray unit a more uniform distribution on the entire surface is achieved. Additionally the consumption can be minimised. Equipped with a long spray lance the Hand spray unit enables an application of the material even on very hot kiln surfaces. The BECHEM Hand spray unit can easily be carried due to its strap.



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Consumption

The consumption of BERULUB VPN 13 RINGLUB depends on the surface temperature, the speed and slip rate of the kiln as well as on environmental conditions and should always be adjusted to the operational conditions. The product should be applied once or twice a month. For very hot kilns a more frequent application is recommended. For a rotary kiln of average diameter 1 to 2 kg for each live ring should be applied.



BECHEM Hand Spray Unit



Application of BERULUB VPN 13 RINGLUB by a Knappsack Spray Unit at a Rotary Kiln in a Cement plant

For the initial lubrication the pastes BERULUB FCC and BERULUB VPN 13 are available. The pastes are applied by brush. Experiences have shown, that approximately 10 to 20 kg of paste are necessary for each pier.



Smoke and fire free application of VPN 13 RINGLUB



Strong smoke and fire with a competitor product