smartGLEIT® 700-Series

.....AND FRETTING CORROSION IS HISTORY

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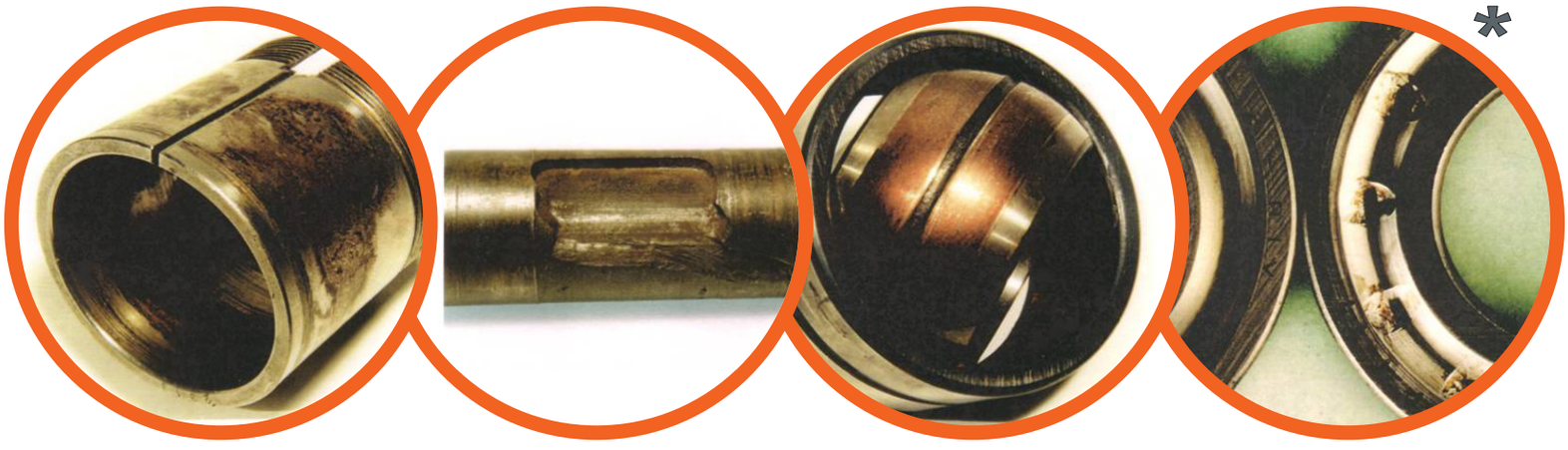
FRICTION MEETS ENGINEERING

Fretting Corrosion – A Friction- and Wear-Phenomenon



Description

Fretting corrosion, an extremely efficient wear mechanism, is induced by oscillating movements with low amplitudes.

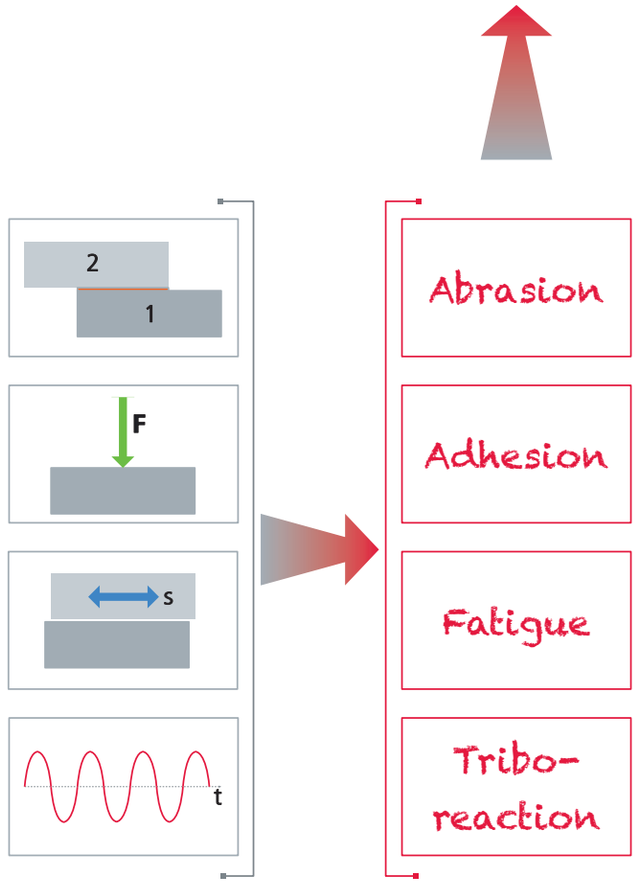
A characteristic of fretting corrosion is the combination of all main wear mechanisms as abrasion, adhesion, fatigue and tribooxidation are part of the overall damage. Depending on the individual tribological conditions their level of contribution to the overall damage may vary.

In relation with fretting corrosion different terms are used in practice:

„vibrational wear, false brinelling, corrosive wear, tribooxidation, chafing corrosion, ripple damage, etc."

Typically, the mechanical stress - not to be confused with 'normal' corrosion in the presence of water - creates corrosion products at the friction contact point, different variants of iron oxide e.g. wüstite, hematite, maghemite, etc.

Anyway, the occurrence of fretting corrosion will lead inevitably to rapid failure of the mechanical system.



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smartGLEIT® 700-Series

The New Benchmark Against Fretting Corrosion

Pastes and Greases with Added Value

- The smartGLEIT® 700 Series - new, innovative lubrication-pastes*, grease-pastes** and greases for all applications lubricated with greases or pastes
- Based on the new generation of white solid lubricants a complete product family was created – for each application the right lubricant for assembly, running in or lifetime lubrication:

Lubrication-Pastes	**PSV** - Series
Grease-Pastes	**FSV** - Series
Greases	**GSV** - Series

- Common lubricant standards are met – therefore the products can be applied similar to 'normal' greases or lubrication pastes.

+ Ultimate protection against fretting corrosion

+ Extreme load-carrying capacity

+ Very good wear protection

+

NO HAZARD LABELS !

Application Examples:

Armatures – Sliding-Guides and -Bearings – Shrink Fits – Joints – Keyed Connections – Adjusting Wedges – Spindles – Disk Cam Mechanisms – Chucks – Machine Bearings – Ejectors – Small Gears – Hinges – Rack and Pinion Gears – Cup-, Leaf-, Annular-, Buffer-Springs – Roller Bearings (at slow speeds) – In General: For lubrication of mixed friction contacts – etc.

* Lubrication-paste with high solids content = PSV
** Grease-paste with medium solids content = FSV

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Product Overview

	Paste	Grease-paste	Grease	Mineral-oil	Synthetic-oil	Li-Soap	Li-Complex Soap	Ca-Sulfonate Complex
PSV 710	◉			◉		◉		
PSV 715	◉				◉		◉	
PSV 730	◉			◉				◉
FSV 760		◉		◉		◉		
FSV 760 E		◉		◉		◉		
FSV 765		◉			◉		◉	
FSV 780		◉		◉				◉
FSV 786		◉			◉			◉
GSV 790			◉	◉		◉		
GSV 791			◉		◉		◉	

smartgleit GmbH
Blütenstrasse 62 - 64
86558 Hohenwart / OT Koppenbach
Germany
Phone: +49 (0) 8443 91757 0
www.smartGLEIT.com

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