

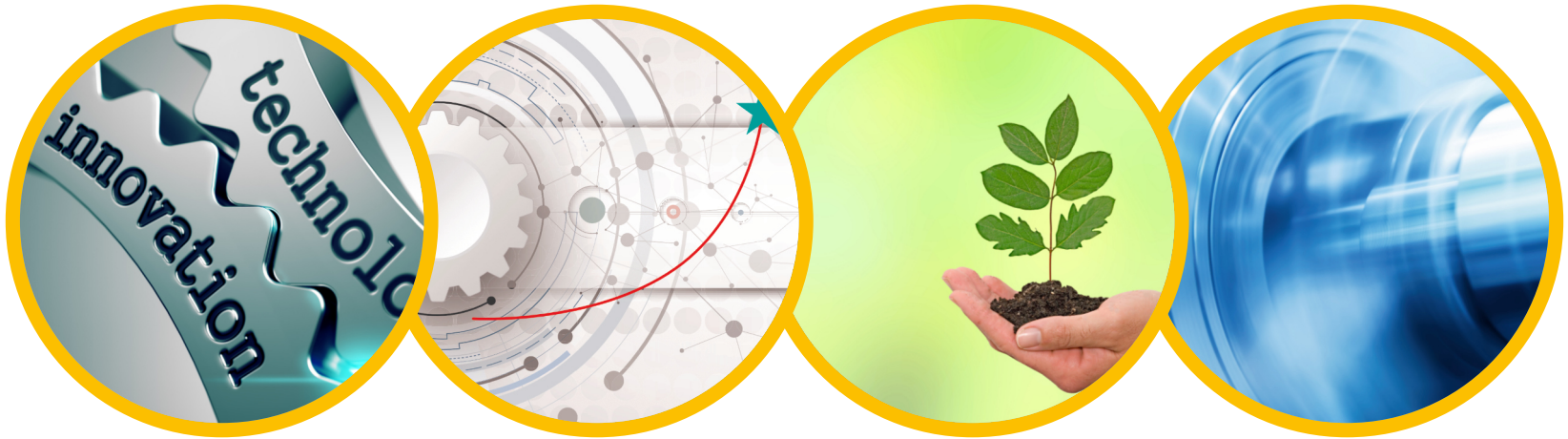
# smartGLEIT<sup>®</sup> 700-Series

MICROWHITE LUBRICATION PASTES AND GREASE PASTES

THE PSV AND FSV SERIES



# THE NEW GENERATION OF MICROWHITE SOLID LUBRICANTS



## Extended Performance Capability

- smartGLEIT®'s new generation of environmentally friendly, microWHITE solid lubricants is extending the existing performance limits for greases and pastes – and as an 'add-on' there are no ingredients which are hazardous = no safety labels required :-)
- The innovative PSV 700 series is based on these solid lubricants. **Especially against fretting corrosion, a great step forward has been achieved.**
- The PSV 700 series shows a level of wear protection and load bearing capacity, which has not been known to date – both on tribological test machines and in hard practice applications.
- The pictures on the right are showing 3 application examples with identical operating conditions for each pair - the way better performance level of the PSV/FSV product compared to the high quality paste used to date is obvious.

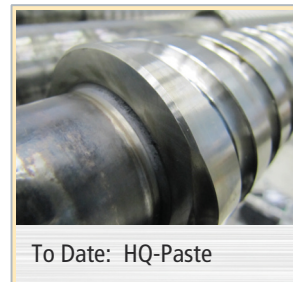
**smartGLEIT® 700 Series**  
=  
**Higher Performance, Less Wear,  
No Risk Labels!**



To Date: White HQ-Paste



**NEW: PSV 730**



To Date: HQ-Paste



**NEW: PSV 710**



To Date: HQ-Paste



**NEW: FSV 765**

# THE PSV 700-SERIES – ONE STEP AHEAD



## The Anti Fretting Corrosion Formula – No Hazard Labels

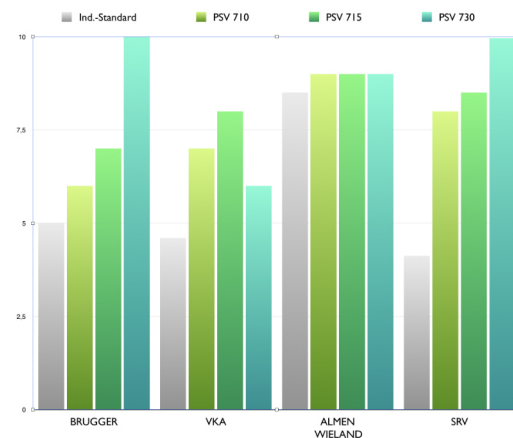
### Features of the smartGLEIT® 700 Series

- Brand new, innovative lubrication pastes of the next generation with particularly high performance.
- Novel, microWHITE solid lubricants:
  - On friction contact the solid lubricants are rapidly building a very thin, but extremely wear resistant tribochemical reaction-layer
  - Particularly high protection level against fretting corrosion - the new performance standard
  - Extraordinary high load carrying capacity
- Universally applicable for
  - assembly
  - running-in
  - permanent lubrication
  - as screw paste
- Various formulations available
- Label-free according to GHS!



### Performance Comparison:

Different PSV types compared on tribological testing machines (standardized values!)



The comparison shows a current top product ("Ind. Standard") compared to the new 700-series product line (with PSV 710, PSV 715, PSV 730). SRV values: The standardized value represents the combination of friction and wear.

### Application Examples:

Sliding Guides – Shrink Fits – Joints – Keyed Connections – Adjusting Wedges – Spindles – Disk Cam Mechanisms – Chucks – Machine Bearings – Ejectors – Rack and Pinion Gears – Cup-, Leaf-, Annular-, Buffer-Springs – etc...

# TECHNICAL DATA

TEST/FEATURE	STANDARD/ PARAMETER	UNIT	PSV 710	PSV 715	PSV 730	FSV 760	FSV 765	FSV 780
Colour	visually	---	beige	white	amber	beige	white	amber
Base Oil		---	mineral oil	synthetic oil	mineral oil	mineral oil	synthetic oil	mineral oil
Viscosity @ 40 °C	DIN 51805	mm <sup>2</sup> /s	135	100	100	130	100	100
Thickener		---	lithium soap	lithium complex soap	Ca-sulfonate-complex soap	lithium soap	lithium complex soap	Ca-sulfonate-complex soap
Service-Temperature		°C	-20 to 100	-40 to 130	-20 bis 140	-20 to 100	-40 to 130	-20 to 140
Solids Content		% (weight)	50	50	40	35	35	30
Density	DIN 51757	g/cm <sup>3</sup>	1,3	1,3	1,3	1,1	1,1	1,1
NLGI-Class	DIN 51818	---	1–2	1–2	1–2	2	2	2
Brugger Value	DIN 51347	MPa	>350	>350	>500	>400	>350	>500
FBM Load	DIN 51350	N	7500	8000	6000	not tested	not tested	5000
Almen Wieland		kN	>18	>18	>18	>18	>18	>18
Screw Test – Friction $\mu_{total}$	M10x50-A4-70 M <sub>A</sub> = 40 Nm	---	0,1	0,1	0,1	not tested	not tested	not tested
SRV Test - Friction $\mu$ Load = 200 N Frequency = 50 Hz Time = 60 min Oscillation Stroke = s	DIN 51834	S [ $\mu$ m]	100	80	100	120	100	120/100
		50 °C	0,12	0,11	0,13	0,12	0,12	0,13/0,14
		80 °C	0,11	0,10	0,13	not tested		
		100 °C	0,12	0,09	0,12			
		120 °C	≥0,3	0,09	0,11			
		140 °C	≥0,3	>0,3	0,11			
EMCOR	DIN 51802	---	0	0	3 (KI: 0)	0	0	1
Water Resistance	DIN 51807	---	1–90	1–90	1–90	0–90	0–90	0–90
Available Packaging	250 g	Plastic Can	x	x	x	x	x	x
	500 g	Cartridge	x	x	x	x	x	x
	1 kg	Plastic Can	x	x	x	x	x	x
	5 / 25 kg	Pail	x	x	x	x	x	x

The information given and the recommendations made herein reflects our current knowledge and can only provide a first overview in this brochure. The given values are not eligible for creating specifications. We reserve the right to make changes based on technical developments or changes in legislation. Due to the wide range of possible applications and operating conditions, the product information can only be indicative of possible applications. Therefore, no binding liability and warranty claims can be derived. In any case we strongly recommend to carry out tests before use and thus determine if the product is meeting all requirements and expectations.

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