Friction Modification for **Grease Applications**

UnivarSolutions

Formulating a soap base or non-soap base grease? We have friction modifiers to help you achieve your **desired performance in aluminum, calcium, lithium or polyurea greases.**

Technical data provided below will help guide you on product selection based on desired properties.

LAMELLAR SOLIDS

PRODUCT	STRUCTURE	CLR/S.G.	MP, C	FRICTION COEFFICIENT
BN	Hexag	Wh/2.25	3000/subl	0.18-0.3
MoS2	Hexag	GrBl/4.8	1100/Dissociation	0.04-0.2
WS2	Hexag	GrBl/7.5	1250/d.	0.05-0.2
Graphite	Hexag	Blk/2.3	362/subl	0.06-0.3
Talc	Monocln	Wh/2.8	-	0.13-0.9

LUBRICANT ADDITIVES

PROPERTY	*MoS2	WS2	*GRAPHITE	PTFE	*TALC/CLAY
Particle Size	2-20 microns	2-20 microns	2-20 microns	1-20 microns	1-20 microns
High Loads / EP (dry)	Excellent	Excellent	Fair	Excellent @ low speed	Good
High Loads / EP (wet)	Excellent	Excellent	Excellent	Excellent @ low speed	Good
Shock Loading/ Low Temp.	Excellent	Excellent	Good	Good	Good
High Temp. Limits	400 C	650 C	450 C	260 C	900 C
Friction Reduction	Good	Good	Good	Excellent	Good
Purity	~98%	100%	~98%	100%	~98%
Dirty Environments	Excellent	Excellent	Excellent	Excellent	Good

***Univar Solutions offers lubricant additives such as MoS2, graphite, and talc/clay for all grease applications.**

Let's talk at lubricants@univarsolutions.com

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