Technical Data Sheet
M. 494 Grease

Introduction:

M. 494 Grease is a polydimethylsiloxanic oil based silicone paste together with inert fillers.
This paste is particularly adapted to protection and insulation of electrical switchgear and to protection applications against humidity.

Advantages:

- Highly hydrophobic.
- Chemically inert.
- Good dielectric properties.
- Good low load lubrication
- Low bleed and weight loss
- Stability of properties over a wide temperature range (work stable after 24hrs at 200°C)
- In conformity with MIL S 8660 C specification.
- UK MOD (Ministry of Defence) approved.
- Approved for contact with drinking water (Potable)

Uses:

- Protection of electrical and electronic systems.
- Protection against humidity of systems which are sensitive to mould growth.
- Protection of small systems in the automotive industry.
- Lubrication of plumbing
- Laboratory stop-cock lubrication

Typical Characteristics:

Product Description			
	Appearance	Translucent to whitish	
Composition			
	Substance	**% by Weight**	
	Polydimethylsiloxanic oil + inert fillers (silica)	100	
Properties			
	Property	**Unit**	**Value**
	Specific gravity @ 25°C		1.0
	Penetration worked 60 strokes 1/10^{e}mm*		190-300
	Penetration unworked, 24 h-1/10^{e}mm*		190-250
	Bleed after 24 h @ 200°C	%	< 6
	Evaporation after 24 h @ 200°C	%	< 2
	Weight loss – 30hrs @ 200°C	%	1.5
	Maximum continuous operating temperature	°C	+ 200
	Minimum continuous operating temperature	°C	- 50
	Thermal conductivity @ 25°C	W/mK	0.21
	Dielectric strength	kV/mm	19.5
	Dielectric constant @ 1 MHz		2.9
	Power factor 1 MHz		1.5^{-3}
	Volume resistivity,	Ω cm	$> 1.0^{15}$
	Dielectric breakdown	kV	>20

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*All penetration values have been measured according to Petroleum Standard IP50/69 or ASTM-D217-68

Application/ How to Use:

It is recommended to apply **M. 494 Grease** onto clean and dry surfaces (degreased if necessary).
M. 494 Grease is applied with a brush, with a paint brush, with a spatula or with a paste gun.
M. 494 Grease can be diluted in aliphatic or chlorinated solvents to facilitate its application when being applied in thin coats.

Shelf Life:

When stored in its original unopened packaging at a temperature between + 2°C and + 50°C, **M. 494 Grease** must be used within 36 months.

Once this expiry date is past, J. Allcock & Sons no longer guarantees the conformity of the product with the sales specifications.

M. 494 Grease should be stored in a cool, dry place.

Packaging:

- 25 kg pails on pallets of 10 units
- 200 kg drums on pallets of 4 units

Health & Safety:

Detailed advice on the Health & Safety aspects of this product is given in the individual product Safety Data Sheet (SDS), available upon request.

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