



## **Hypax 450-18-70**

Calcium soap of oxidised wax in solvent

### **Product description**

Hypax 450-18-70 is a calcium soap of Hypax 450 oxidate which is used to formulate products to meet the requirements of MIL-C-16173D-4 and related specifications for automotive cavity and underbody protection. Heavy-duty outdoor protective films can be formulated to protect a wide variety of metal objects and can be pigmented.

### **Typical analysis**

Property	Test	Units	Typical Analysis
Appearance	Visual		Soft brown solid
Melting point (supplied)	ASTM D127	°C	25 - 55
Melting point (dry soap)	ASTM D127	°C	115 - 135
Flash point	ASTM D92	°C	> = 41
Relative density	@ 15.5°C		0.91- 0.93
Non volatile content	1 hour @ 150°C	% w/w	70.0

### **Application**

Hypax 450-18-70 is usually blended with barium, sodium or calcium sulphonates, oil and/or solvent and for enhanced water displacement 1 or 2% of 2-butoxyethanol (CAS no. 111-76-2). For harder films, high melting point waxes are added along with powdered calcium carbonate or talc. For thixotropic films, crystalline calcium sulphonates are incorporated at typically 10% w/w. These final blends will give good salt fog/humidity protection.

At under 40% solids, there may be some instability in solution.

### **Performance**

A 25 micron dry film of Hypax 450-18-70 will give up to 72 hours salt spray resistance (ASTM B117) and good humidity resistance.

### **Packaging**

Hypax 450-18-70 is available in 170Kg net weight steel drums or as required by the customer. The recommended shelf life of this product is 2 years.

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