



## WT 235 Coldspray

H & R Chempharm (UK) Ltd's insulator greases have a service record spanning 30 years in the industry

WT 235 Coldspray is especially designed to reduce the risk of flashover on high voltage overhead supply systems and ceramic insulators. The compound provides invaluable protection in areas of high industrial pollution (chemicals, cement dust etc.) or in coastal regions where saline contamination may be high.

It is particularly suitable for application by cold drum pumping at ambient temperatures and recommended for use over the service temperature range -40 °C - + 90 °C.

It is possible to spray WT235 onto surfaces using an air assisted airless spray gun. Good results have been obtained with spray tips

between 11-15 thou. ( 0.28 – 0.38 mm ), pump pressure of approx. 3500psi and 90psi of atomizing air on the gun.

WT 235 Coldspray is a grease based on mineral hydrocarbons and synthetic polymers.

### Features and Benefits:

- Good adhesion to metallic surfaces e.g. overhead power lines as well as ceramic surfaces e.g. High voltage insulators
- Low volatility at elevated temperatures
- Inhibits surface electrical activity
- Suitable for use over a wide range of climatic conditions

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### Physical Properties

Appearance	Visual	Dark brown gel
Density at 20 °C/gcm <sup>3</sup>	ASTM D1475	0.90 Typical
Flash Point of Base Oil (Open)/ °C	ASTM D92	230 Minimum
Cone Penetration	ASTM D217	See Fig.1
Viscosity at 20°C, 50s <sup>-1</sup> /mPa.s	DIN 53019 (Haake VT 550)	28000 – 32000
Viscosity Profile at 20 °C	DIN 53019 (Haake VT 550)	See Fig.2
Oil Separation, 24 hours at 80 °C	FTM 791-B (321.2)	0.75% Typical
Volatility, 24 hours at 80 °C	FTM 791-B (321.2)	0.25% Typical

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The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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Fig.1 - Cone Penetration (ASTM D217) vs. Temperature (2 hours equilibrium at each temperature point).

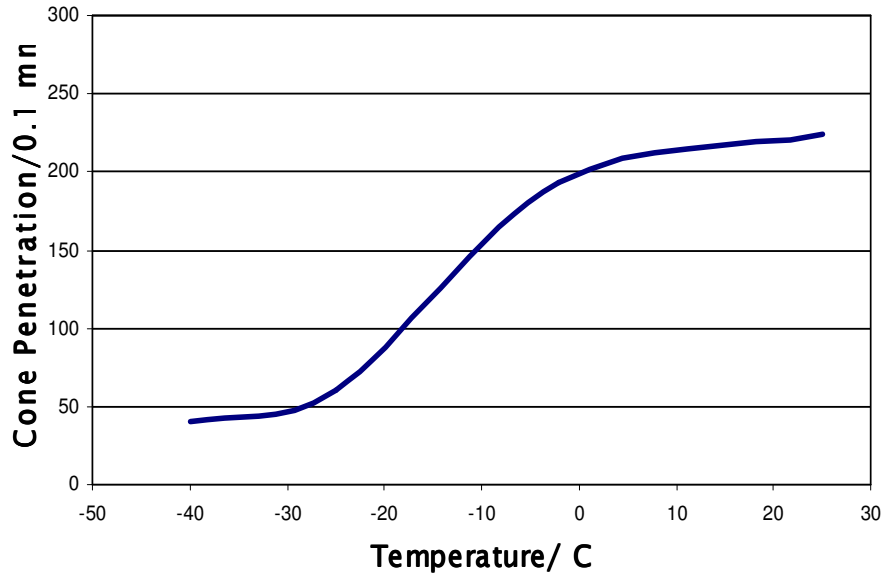


Fig.2 - Typical Viscosity vs. Shear Rate at 20 °C, measuring to DIM 53019 using a Haake VT 550 with a PK1 2° Cone and Plate

