



## TECHNICAL DATA SHEET

### PETRONOL HM

A DRY BONDING AGENT

**PRODUCT NAME** : PETRONOL HM72

**CHEMICAL NAME** : HEXAMETHOXY METHYL MELAMINE



**PHYSICAL FORM** : White powder.

**ACTIVE INGREDIENT**: 72% Hexamethoxy methylmelmine & 28% Calcium Silicure.

**ASH AT 85°C %** : 27-31

**LOSS At 105 C %** : 7.5 max.

**Weight loss as per DIN %** : Max 7 %

**SIEVE RESIDUE AT %**: 1 max  
**200 MESH**

**FREE FORMALDEHYDE %**: 0.1 Max

**SOLUBILITY** : Partial soluble in alcohol and Toluene.

**CLASSIFICATION** : DRY BONDING AGENT

**OTHER INFORMTION** : Free Formaldehyde- 0.1% Max

Loss À 105oC - 7.5% Max



**CHEMICAL FUNCTION:** Methylene Donor.

**DISCOLORATION STAINING:** Non discolouring and non staining.

**TOXICOLOGY** : Practically non-harmful by ingestion. Not a skin irritant but an eye irritant.

**HANDLING PERSONAL:** Avoid creating dust and inhalation of dust. Ensure good ventilation. In case of eye contact wash with clean water for 5 to 10 minutes and seek medical advice.

**STORAGE** : PETRONOL HM has very good storage stability. Store in a cool and dry place in closed containers. Avoid extremes of temperature and humidity.

**PACKAGING** : 25 Kg net in paper bag.

**ADVANTAGES OF** : Promotes outstanding adhesion between PETRONOL HM rubber and reinforcing cord or fabric.

Good compatibility, easy dispersion.

No amine or ammonia by-product.

Better scorch protection compared to Hexamine non-blooming. Better storage life of compound.

**APPLICATION:** PETRONOL HM in combination with PETRONOL RS is a rubber compound, promotes excellent bond strength between the vulcanisate and strength member material (textiles and plated Steel Cords).

This combination is highly effective for bonding not only with diene rubbers (e.g., NR, SBR, CR, NBR etc.) but also with the saturated rubber like EPDM & IIR. Normal dosage varies from 1.5 to 2.5 phr. depending on the type of application. Silica between 10 to 15 phr. added to the compound improves substantial bond strength.

Sulphenamide type of accelerators are preferred for this system.

PETRONOL HM offers good processibility.

***N.B. These suggestions have been made for use of PETRONOL HM as a improved dry bonding agent only as a guideline without any warranty.***

