



TECHNICAL DATA SHEET

PETRONOL HMTS A DRY BONDING AGENT

PRODUCT NAME: PETRONOL HMTS

CHEMICAL NAME: Hexamethylene Tetramine (HMT) mixed with Silica.

CHEMICAL COMPOSITION: Hexamethylene Trtramine 97%
Hydrateã Precipated Silica 3%

PHYSICAL FORM: White Powder

SPECIFIC GRAVITY @ R.T.: 1.3

MOISTURE CONTENT: 1% Max

ASH CONTENT: 2.0 +/- 0.5

CHEMICAL FUNCTION: Methylene donor

CLASSIFICATION: DRY BONDING AGENT

CHARECTARISTIC: PETRONOL HMTS is a free-flowing powder, which is less volatile and more stable during storage.

DISCOLORATION & STAINING : Non Staining

TOXICOLOGY: May be harmful if swallowed and can cause eye/skin irritation.

HANDLING AND PERSONAL: Ensure good ventilation and avoid crea-
PROTECTIONing dusty atmosphere. In case of skin/
eye contact, wash thoroughly with clean water. If swallowed, seek immediate medical assistance.

STORAGE: PETRONOL HMTS has very good storage stability store in a cool and dry place if closed containers .

PACKAGING: 25 Kg net HDPE bag .

APPLICATION : PETRONOL HMTS is dry bonding agent used in combination with PETRONOÏ RS. This combination when incorporated into rubber compounds, promotes the bond strength between the vulcanisate and strength member material (textiles ,





plated steel cord).

The bonding effect of the system results from a condensation reaction between the Resorcinol and Methylene components, which takes place during vulcanisation and is catalysed by the Silica. The adhesion is at its best when the compound has been cured at optimum. The best results are obtained with all diene rubbers, and also with highly saturated rubbers like EDPM and IIR.

Typical dosages of PETRONOL HMTS is 1.5 to 2.5 phr depending upon type of application and mixing condition. Compound containing PETRONOL HMTS tends to cure faster and hence, sulphenamide type of accelerators are recommended.

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

