



## PENTAERYTHRITOL STEARATE

PETS is a white waxy solid with a high melting point, which is soluble in alcohol and benzene. It is a very useful plastic lubricant as it does not volatilize even at high temperatures ( 7 % loss at 400 C with polymer ) , thereby reducing degradative effects like plateout and burning.

### TYPICAL PHYSIOCHEMICAL PROPERTIES

Property	Unit	PETS-3 ( tri stearate)	PETS-4 ( tetrastearate)
Acid Value	mgKOH/g max	2	2
Iodine value	( gI <sub>2</sub> /100 gm ) max	2	2
Hydroxyl value	mgKOH/g	25-35	55-65
Saponification value	mgKOH/g	185-195	185-195
Melting Point	Deg C	55-65	50-60

### APPLICATIONS

- As a highly efficient and thermally stable lubricant and mould release agent with engineering plastics such as PC, PPS, PPO, NYLON( polyamide ), PETS, ABS, HIPS etc
- As an anti fog agent in PE, PP and PU
- As a lubricant in rubber
- As a softener and anti stat in textiles
- Oil improver and surface improver in leather
- As an ingredient in high efficiency lubricating oils for metal cutting and rolling