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## MINERAL FILLERS -SILICAS-

### MANSIL® - 175MP (MICRO-PEARL)

#### PRODUCT DESCRIPTION:

Mansil – 175MP is a high dispersion, high purity precipitated micro-pearl silica powder. Mansil – 175MP is a reinforcing filler for use in synthetic and natural rubber compounding. Advantages are faster incorporation time and less viscosity buildup while maintaining excellent dispersion and superior rubber compound properties.

#### TYPICAL PROPERTIES:

	<u>Mansil- 175MP</u>
Appearance	white micro-pearl
Moisture Loss- 105°C (%) (2 hrs in oven)	7 % max
pH (5% slurry)	6.0-7.0
Surface Area (m <sup>2</sup> /g), BET	170-190
SiO <sub>2</sub> , anhydrous bone-dry basis, (%)	98.0 min
Average Particle Size, (d-50) (micron)	225-275

#### APPLICATION:

Mansil 175MP precipitated silica increases hardness, tensile strength, abrasion and tear resistance. For mechanical rubber goods, Mansil-175MP can be used as the primary filler or in combination with carbon black. In tire applications, these silicas improve rolling resistance, flex fatigue and enhance traction. In adhesives compounding, silica provides an additional method of promoting improved adhesion, as well as providing reinforcement. Silicas are universally applied to provide increased abrasion resistance, green strength and translucence in the formulating of shoe sole compounds.

#### DOSAGE:

Lightly loaded compounds are prepared using 5 - 20 phr while highly loaded, oil extended compounds can use 75 - 100 phr. PEG-3350 is the most often used activator to improve cure rate and state of cure. Akrosorb 29471, which is dry liquid dispersion of 72% DEG, functions like PEG-3350 with the added advantage of further reduction of compound viscosity.

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