

# ImerFlex® T 10D

(Earlier known as Mistron® Vapor-R)

VERSATILE UNIQUE MINERAL FILLER FOR RUBBER COMPOUND



Scan for Detailed Catalogue

Description and applications :

**ImerFlex T 10D** is High Purity, Platy, Very Fine Talc, which Provides Optimum Balance of Reinforcement and Processability in rubber applications due to its unique Microcrystalline structure and engineered particle size distribution. **ImerFlex T 10D** is available in powder, **densified**, and compacted forms to accommodate various raw materials handling requirements.

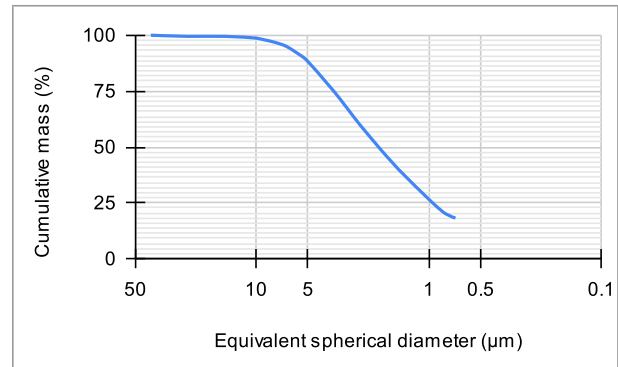
**ImerFlex T 10D** improves Processability, Mechanical Properties, and Permeability Resistance of Rubber Compounds. Due to its softness reduces wear of processing equipment & also helps to reduce mixing time. It is used to Reduce Viscosity, Reduce Nerve, Increase Extrusion rate and quality, additionally improve Dispersion of Carbon Black and Precipitated Silica. **ImerFlex T 10D** Reinforces Rubber Compounds and improves Tensile Properties, Fatigue, Toughness, and Durability. The Platy structure of **ImerFlex T 10D** significantly Enhances Barrier Properties. As a Asbestos free filler highly suitable for Medical Applications & the products which come in contact with Human Body.

### TYPICAL PROPERTIES

Whiteness (Minolta CR 400, illuminant D65/2)Y	89
B.E.T. (ISO 9277)	14.4 m <sup>2</sup> /g
Specific gravity (ISO 12154)	2.78 g/cm <sup>3</sup>
Tapped bulk density (ISO 787/11)	0.49 g/cm <sup>3</sup>
Hardness (Mohs' scale)	1
Moisture content at 105°C (ISO 787/2)	0.3 %
pH (ISO 787/9)	9

### PARTICLE SIZE DISTRIBUTION BY SEDIGRAPH

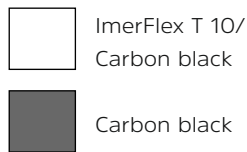
Sedimentation analysis, Stokes' Law (ISO 13317-3)  
Median Diameter d50: 1.9 µm



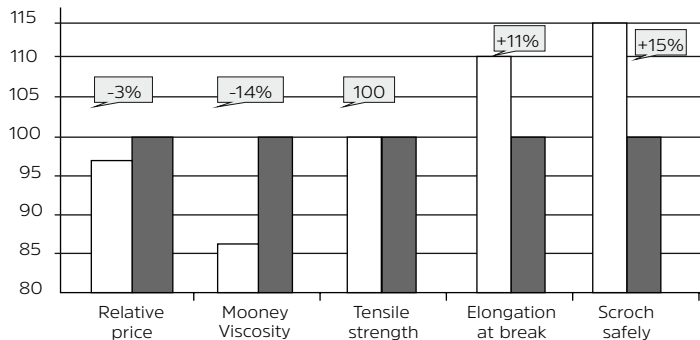
### MINERAL ANALYSIS (BY THERMOGRAVIMETRIC ANALYSIS)

Talc	94%
Chlorite	5%
Dolomite	1%
Loss on ignition at 1050°C	6.0%

## All round improvement in performance with 20% ImerFlex T 10D Vs Carbon Black in EPDM



Example of 20% of carbon black replaced by ImerFlex T 10 in EPDM



## ImerFlex T 10D has a Co<sub>2</sub> footprint about 10 times lower than carbon black.

**ImerFlex T 10D** is the best FILLER FOR CABLE INSULATION COMPOUNDS as it Increases Volume Resistivity. High Volume Resistivity, enhances Insulation Resistance(IR) specially in EPDM compounds, as compared to CalciumCarbonate or Silica. Its Hydrophobic nature help IR retention after water immersion compared to other fillers.



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