

# IMERYS ImerFlex HAR® T-20

## Solution for Rubber Application

It is Hydrated Magnesium Silicate, Water Repellent, Lamellar, and Inert. It is the softest mineral on earth. Microcrystalline Talc act in synergy with Reinforcing Fillers such as Carbon Black and Silica

Sr No	Sailent Features
1	<b>Better processing</b> : Lower compound viscosity and Improved Mold Flow & Anti-Sticking
2	<b>Barrier effect</b> : Lower Gas and Liquid Permeability
3	<b>Synergism on mechanical properties</b> : Improve tensile properties such as Elongation at Break Enhance Cut and Tear resistance (Toughness and Durability), Silane treated talc improves Compression Resistance
4	<b>Extend service life</b> : Very Good Retention of Tensile Properties
5	<b>Superior weathering and UV stability</b> : No gloss variation after weathering, Limited discoloration after weathering

Market	Applications
Electric Vehicles	Lower CO <sub>2</sub> emissions Increased performance of lithium ion batteries for electric cars
Car Tires	Weight reduction is one of the key drivers for decreasing Co <sub>2</sub> emission in Cars

### Physical characteristics :

CHARACTERISTICS		Specific area BET m <sup>2</sup> / g	Sedigraph D <sub>50</sub> (μ)	Laser granulo D <sub>50</sub> (μ)	Aspect Ratio (Jennings)
Dry Mill Process	T10 D	-15	1.9	4.7	23
Wet Milled Process	Mistron HAR®T20	-20	1.2	5.7	143

### Application :

A. HAR® Talc in Tyre Inner liner Partical CB Replacement

#### Advantages :

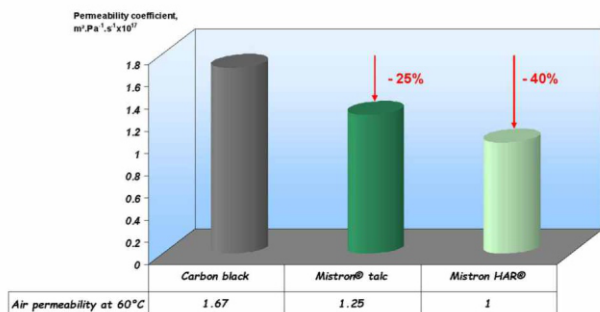
1. Retention of properties after Air Ageing also retained
2. Further Permeability reduction possible without Carbon Black

B. HAR® talc in Tyre Side Wall Partial CB Replacement

#### Advantages :

1. HAR® talc enhance cut growth resistance of SW compound & Thermal Resistance is also improved Vs Pure CB Compound enabling possible extension of Service life
2. No negative effect observed on Rebound, Ozone Resistance

### Permeability Performance



### Overall Properties

