

TIRE SOLUTIONS

Let's innovate for sustainable performance



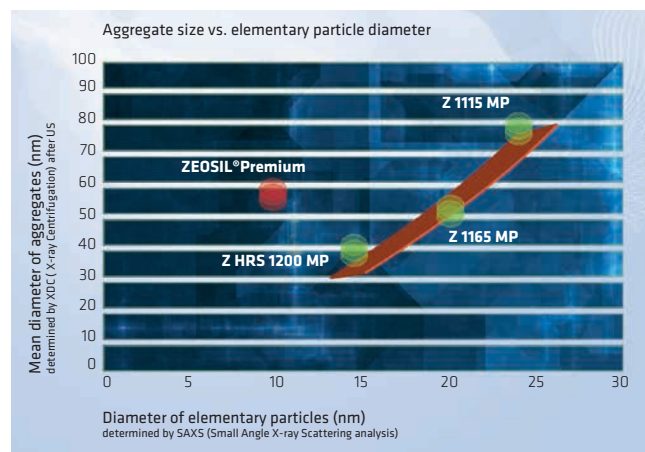
ZEOSIL® PREMIUM

The new High Surface Silica technology for Tires

Cutting edge technology with unique morphology

Zeosil® Premium is the first generation of high surface silicas which combines high dispersibility, excellent reinforcement and low hysteretic properties.

Zeosil® Premium offers unique structure, resulting from a new compromise between silica aggregate and elementary particle sizes (Specific Surface Area).



Zeosil® Premium: less resistance, more performance

→ Reduction in rolling resistance for unmatched environmental benefits

This technology delivers further reduction in rolling resistance thereby lowering fuel consumption and impact on the environment.



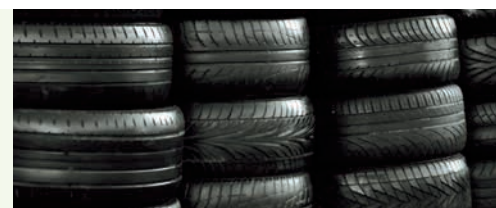
→ Improvement of handling for better driving behavior

The excellent dispersibility of Zeosil® Premium provides tire users with better handling characteristics and longer tread life.



→ Enhancement of processing performance for increased productivity

The unique premium morphology improves mixing and processing performance increasing tire manufacturer productivity.



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Solvay Silica ranges for tires: the world class reference for energy efficient tires

Highly Dispersible Silica Micropearl

Launched by Solvay, the Highly Dispersible Silica has become the universal benchmark allowing low rolling resistance while maintaining wear resistance and grip properties.

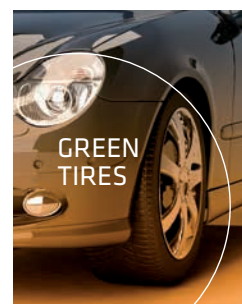
Zeosil® Premium

The new high surface silica technology

Zeosil® 1200MP

Zeosil® 1165MP

Zeosil® 1115MP



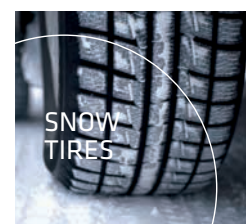
Highly Dispersible Silica Granule

Zeosil® 195HR

Zeosil® 165GR

Zeosil® 115GR

Zeosil® 1085GR



Conventional Silica Granule

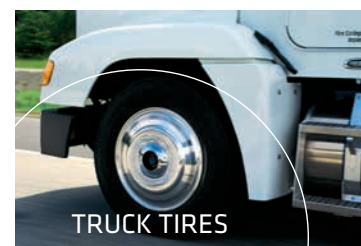
Tire applications can also benefit from the expertise of conventional silica.

Zeosil® 195GR

Zeosil® 185GR

Zeosil® 175GR

Zeosil® 125GR



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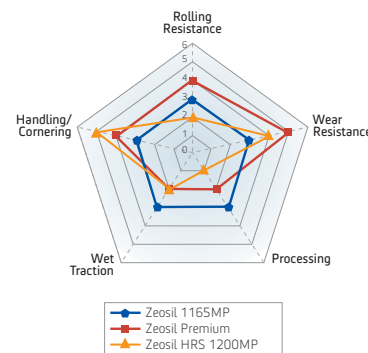
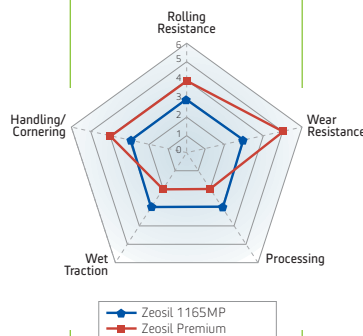
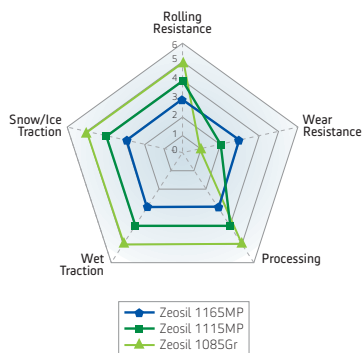
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Solvay Highly Dispersible Silica: the widest performing range of HDS for sustainable mobility and energy efficient tires

	HIGHLY DISPERSIBLE SILICA				
Name	Zeosil®1085Gr	Zeosil®1115MP	Zeosil®1165MP	Zeosil® Premium	ZHRS® 1200MP
Characteristics	Amorphous precipitated				
Aspect	White Micro-Granulate	White Micropearl			
Manufacturing location	France	South Korea	EU: Fr, It USA Asia: SK, Cn	France	Italy
TYPICAL ANALYSIS*					
CTAB (m ² /g)	80	110	160	200	195
BET (m ² /g)	90	115	165	215	200
Processing	5	4	3	2	1
Rolling Resistance	5	4	3	4	2
Handling	1	2	3	4	5
Wear Performance	1	2	3	5	4
Dry Grip	1	2	3	3	3
Wet Grip	5	4	3	2	2
Ice/Snow grip	5	4	3	1	2

1	Satisfactory
2	Good
3	Very Good
4	Excellent
5	Premium



Example of associated Tire Range	Tires with high wet/snow/ice grip ex : Winter Tire Suitable for non tread application (all tires)	Fuel Efficient Tires Asia standards OE + (RT)	Fuel Efficient Tires West EU and USA standards OE + (RT)	New Generation Fuel Efficient Tires (EU/labelling)	UHP Tires Sport Tires
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Most products are available in different package size (paper bag, big bags, bulk).
For more informations including product specification, visit us at www.solvay.com

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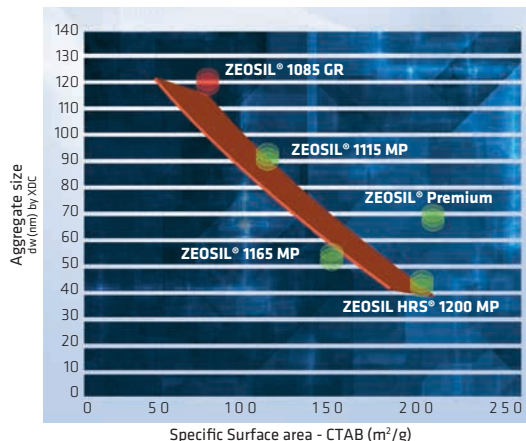
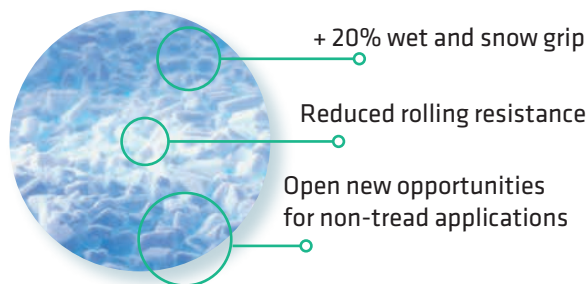
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Zeosil® 1085GR



Zeosil® 1085GR is the only very low surface area Highly Dispersible Silica (HDS) available on the market that suits tire industry needs.

Solvay Silica developed this new solution to improve wet and snow grip by 20% while sharply reducing rolling resistance and therefore improving fuel efficiency.

These advantages bring new opportunities to meet tire labelling regulations and winter tire laws imposing the use of winter tires from fall to spring.

Designed to enhance Winter and Nordic tire performances, Zeosil® 1085GR also brings new opportunities to other applications (non tread and rubber goods for example).

Its microgranulate form has a specific shape designed to combine low dusting, excellent flowability and optimum dispersion. Zeosil® 1085Gr can be handled in both standard and pneumatic conveying systems.

Zeosil® 1085GR: Less resistance, more safety, more applications

→ Winter tires: Zeosil® 1085GR offers great improvements in ice, snow and wet traction together with reduced rolling resistance.

Using this innovative silica improves safety of drivers in difficult driving conditions while enabling tire manufacturers to be in conformity with the European labelling program.



→ Non-tread applications: Zeosil® 1085GR can also be used in other parts of the tire like sidewalls or bead.

This silica reduces the compound hysteresis and the heat build-up while maintaining stiffness and diminishing fatigue failure. It is the solution of choice for further reducing of rolling resistance of all tires without affecting tire lifetime.



→ Processing: The very low surface area silica developed by Solvay makes this Highly Dispersible Silica the easiest to process.

This technology offers many possibilities to enlarge silica usage in difficult processing conditions (high silica loading, high viscosity matrixes...).



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