



Industrial  
chemicals

Creating the missing link.

# Active Zinc Oxides / Zinc Carbonates / thermal Zinc Oxides

Product	Composition	Applications and Characteristics
Zinc Oxide RAC	Active Zinc Oxide	<b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• activator for sulfur and thiuram vulcanization</li> <li>• ideal for slow reactive systems like EPDM</li> <li>• excellent cost/performance ratio</li> <li>• optimal composition for vulcanization</li> <li>• reduction of heavy metal content up to 50 % in comparison to conventional systems</li> </ul>
TP 1862	Masterbatch	<b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• zinc-based masterbatch</li> <li>• replaces resorcinol and cobalt in steel-cord adhesion mixtures</li> <li>• low zinc and heavy metal content</li> <li>• dust-free granules for easy handling</li> </ul>
TP 1850	Masterbatch	<b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• zinc-based masterbatch</li> <li>• replacement of zinc oxide in recipes</li> <li>• pre-dispersion within a carrier polymer</li> <li>• dust-free granules for easy handling</li> </ul>
Zinc Oxide RAC CS	Formulation of active Zinc Oxide + carrier	<b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• vulcanization activator with remarkably reduced zinc content by simultaneously giving better physical properties</li> <li>• produced according to the "Core-Shell" principle</li> </ul>
Zinc Oxide AC	Active Zinc Oxide	<b>Catalyst Industry</b> <ul style="list-style-type: none"> <li>• high purity for zinc catalyst process</li> <li>• high surface area for high performance</li> <li>• ideal particle structure</li> </ul> <b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• activator for sulfur and thiuram vulcanization</li> <li>• for production of transparent and translucent rubber articles</li> </ul>
Zinc Oxide Pro Series	Active Zinc Compound	<b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• vulcanization activators with emphasis on price, performance, ecology</li> <li>• superior price/performance ratio vs. thermal zinc oxide</li> <li>• 1:1 replacement of thermal zinc oxide</li> </ul>
Zinc Carbonate RAC	Hydrozincite, Zinc Oxide	<b>Sulfur Absorption</b> <ul style="list-style-type: none"> <li>• for hydrogen sulfide removal (e.g. in oil and gas exploration)</li> <li>• fertilizer</li> <li>• highly active zinc compound</li> <li>• excellent cost/performance ratio</li> </ul>
Zinc Carbonate AC	Hydrozincite, Zinc Oxide	<b>Chemical Industry</b> <ul style="list-style-type: none"> <li>• raw material for organic zinc derivatives (e.g. zinc soap and zinc salt, catalyst, cosmetic and home care products)</li> <li>• high purity and reactivity</li> </ul> <b>Rubber Industry</b> <ul style="list-style-type: none"> <li>• activator for sulfur and thiuram vulcanization</li> <li>• for production of transparent and translucent rubber articles</li> </ul>
Zinc Oxide Premium	Zinc Oxide, 99,8 %	<b>Indirect Zinc Oxide</b> <ul style="list-style-type: none"> <li>• very high purity Zinc Oxide with low lead content</li> <li>• applications in cosmetic, rubber, paints, varistors</li> </ul>
Zinc Oxide White Seal	Zinc Oxide, 99,7 %	<b>Indirect Zinc Oxide</b> <ul style="list-style-type: none"> <li>• high purity, fine particle structure</li> <li>• wide ranges of application</li> <li>• plastic, rubber and chemical industry, paints</li> </ul>
Zinc Oxide Special	Zinc Oxide, 99,2 %	<b>Direct Zinc Oxide</b> <ul style="list-style-type: none"> <li>• very good application characteristics in: glass, enamel, ceramic industries, chemical industry, oil additive, rubber industry, lubricants</li> </ul>

# Bruggolite®/Blancolen® – Reducing and Antioxidant Agents

Product	Composition	Applications and Characteristics
Bruggolite®FF6M	Sulfinic Acid Derivative	<b>Formaldehyde free Reducing Agent</b> <ul style="list-style-type: none"> <li>• high reactivity grade</li> <li>• enhanced performance in removal of residual monomers</li> <li>• non yellowing</li> <li>• microgranules</li> </ul>
Reducing Agent TP 1646		<b>Formaldehyde free Reducing Agent</b> <ul style="list-style-type: none"> <li>• stable under acidic conditions</li> <li>• no odor in aqueous solution</li> </ul>
Reducing Agent TP 1651		<b>Formaldehyde free Reducing Agent</b> <ul style="list-style-type: none"> <li>• high process robustness</li> <li>• specially suitable for styrene acrylate based systems</li> </ul>
Reducing Agent TP 1853		<b>Formaldehyde free Reducing Agent</b> <ul style="list-style-type: none"> <li>• high process robustness</li> <li>• specially suitable for vinyl acetate based systems</li> </ul>
Bruggolite®E28		<b>Formaldehyde free Reducing Agent</b> <ul style="list-style-type: none"> <li>• high reactivity grade</li> <li>• specially suitable for low pH systems</li> <li>• non yellowing</li> </ul>
Bruggolite®FF7	Sulfinic Acid Derivative	<b>Formaldehyde free Reducing Agent</b> <ul style="list-style-type: none"> <li>• high reactivity grade</li> <li>• enhanced performance in removal of residual monomers</li> <li>• non yellowing</li> </ul>
Blancolen®HP		<b>Antioxidant</b> <ul style="list-style-type: none"> <li>• applicable to latices and solids</li> <li>• heat resistant up to 200 °C</li> <li>• prevents yellowing in polymers</li> </ul>
Bruggolite®E01	Sodium Formaldehyde Sulfoxylate	<b>Reducing Agent</b> <ul style="list-style-type: none"> <li>• for water-based polymerization and textile industry</li> <li>• powder or granules</li> </ul>
Bruggolite®NF	Sodium Formaldehyde Sulfoxylate	<b>“Pharma” Reducing Agent</b> <ul style="list-style-type: none"> <li>• Pharmaceutical quality</li> <li>• specified and tested according to the latest issue of USP</li> </ul>
Bruggolite®L40	Stabilized Solution of Sodium Formaldehyde Sulfoxylate	<b>Liquid Reducing Agent</b> <ul style="list-style-type: none"> <li>• for water-based polymerization and textile industry</li> <li>• water-based solution ready for processing</li> <li>• optimization of handling</li> </ul>
Bruggolite® No 5	Stabilized Solution of Sodium Formaldehyde Sulfoxylate	<b>Liquid Reducing Agent</b> <ul style="list-style-type: none"> <li>• for textile industry</li> <li>• odor optimized</li> </ul>
Blancolen®T/TL	Sulfinic Acid Derivative	<b>Reducing Agent</b> <ul style="list-style-type: none"> <li>• specially stabilized for the production of titanium dioxide</li> <li>• improved whiteness by reduction of transition metals</li> <li>• better process reliability in comparison to trivalent-system</li> </ul>
Sodium Hydrosulfite F	Sodium Dithionite	<b>Reducing Agent</b> <ul style="list-style-type: none"> <li>• printing and dyeing in the textile and leather industry</li> <li>• bleaching of minerals and aluminum oxides</li> <li>• water treatment e.g. in the galvanization industry</li> <li>• for the bleaching of wood pulp, and recycled paper</li> </ul>

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