



255 Fountain Street Akron, Ohio 44304-1991
330-535-2100 ♦ 800-321-2260 ♦ Fax 330-535-8947

MINERAL FILLERS -ADDITIONAL FILLERS-

HYDREX®

DESCRIPTION:

Hydrex is a precipitated, synthetic sodium magnesium aluminosilicate filler available in two different grades: Hydrex R and Hydrex N. These silicates are semi-reinforcing powders utilized in all types of elastomeric compounds. Hydrex fillers provide high brightness to non-black elastomeric compounds and produce very smooth extruded and calendered products.

TYPICAL PROPERTIES:

	Hydrex R	Hydrex N
Average Particle Size (µm)	5.0	5.0
pH	10.2	6.5
Surface Area (m ² /gm. BET)	60	65
Specific Gravity	2.10	2.10
Sieve Residue, 325 Mesh, %	0.05	0.05
Sodium Sulfate, %	2.50	4.50
Moisture, 2 hrs./105°C	4.00	4.00
Oil Absorption, Linseed cc/100gr.	135	135
GE Brightness	99.0	99.0

APPLICATIONS:

Hydrex synthetic fillers are primarily used for two purposes in rubber compounding which are as a brightener in non-black (colored) filled formulations and as an excellent extrusion additive. This filler is one of the brightest offered in the rubber industry and is often used as a titanium dioxide extender to reduce cost, add brightness and act as an UV reflector to slow compound yellowing. In the compounding of colored elastomers, Hydrex will improve color quality (chroma or vividness) at a reduced cost. This filler is utilized in fluorescent colored compounds to improve the fluorescent effect of the pigments. In addition, their low surface area and morphology contribute to excellent surface smoothness and easy processing during extruding and calendering operations. Hydrex R and N have higher structure than Zeolex 23 and 80 and are more reinforcing to the elastomeric matrix which improves tensile strength, abrasion resistance and other important properties. Typical applications include: hose covers, industrial tires, bumper moldings and other rubber compounds.

[®] Hydrex is a registered trade name of J.M. Huber, Engineered Materials Sector

jh, 0100, t-hydrex

Included with its product literature and upon the request of its customers, Akrochem provides product specifications and evaluations, suggested formulations and recommendations and other technical assistance, both orally and in writing (collectively the "Technical Information"). Although Akrochem believes all Technical Information to be true and correct, it makes no warranty, either express or implied, as to the accuracy, completeness, or fitness of the Technical Information for any intended use, or the results which may be obtained by any person using the Technical Information. Akrochem will not be liable for any cost, loss or damage, in tort, contract or otherwise, arising from customer's use of Akrochem products or Technical Information. It is the customer's sole responsibility to test the products and any Technical Information provided to determine whether they are suitable for the customer's needs. Before working with any product, the customer must read

and become familiar with available information concerning its hazards, proper use, storage and handling, including all health, safety, and hygiene precautions recommended by the manufacturer. Nothing in the Technical Information is intended to be a recommendation to use any product, method, or process in violation of any intellectual property rights governing such product, method, or process. No license is implied or granted by Akrochem as to any such product, method, or process. AKROCHEM CORPORATION DISCLAIMS ANY AND ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE, RELATED TO ANY PRODUCTS OR TECHNICAL INFORMATION PROVIDED BY AKROCHEM.