



## DHT-A4

*DHT-4A is a synthetic Hydrotalcite-like compound that has recently been developed by Kisuma Chemical and Kyowa Chemical Industry Co., Ltd. for use as a stabilizer (halogen scavenger) in plastic processes such as the production of polyolefins.*

DHT-4A reacts with and deactivates residual quantities of acidic substances associated with Ziegler Natta, Friedel Crafts, Metallocene or other acid catalysts used to produce polymers or elastomers. As a result, DHT-4A can markedly reduce or eliminate corrosivity and improve the polymers heat resistance and weathering properties. DHT-4A is particularly useful in Polypropylenes made with high-yield catalysts that have no need for a de-ashing process. However, the PP produced in this process contains a considerable amount of halogen residual catalyst components, for example approximately 10 to 300 ppm of Cl. Such concentrations may cause problems of corrosion in molding equipment or degradation of polymers themselves. Ideally halogens of this nature should be rendered inert. Through a unique adsorptive characteristic DHT-4A is able to do just this.

### Superior of DHT-4A to the conventional agent such as Calcium stearate

<ul style="list-style-type: none"> <li>Quantities of additives are minimized</li> </ul>	DHT-4A has about 5 times the capacity of calcium stearate to protect against corrosivity. Any loss of the polymers physical properties resulting from additives is thereby reduced.
<ul style="list-style-type: none"> <li>Polymer yellowing is avoided</li> </ul>	When DHT-4A comes in contact with Phenolic type stabilizers, such as B.H.T., that are widely used as antioxidants, DHT-4A does not cause polymer yellowing
<ul style="list-style-type: none"> <li>No Stearic acid Vapor problem</li> </ul>	By using DHT-4A, troublesome stearic acid vapors can be eliminated
<ul style="list-style-type: none"> <li>Reduction of water carry-over</li> </ul>	The amount of water carry-over while using DHT-4A is noticeably less than in the case of calcium stearate.
<ul style="list-style-type: none"> <li>High dispersibility</li> </ul>	These particles are treated with a surface active agent which enables them to have a good affinity with polymers.
<ul style="list-style-type: none"> <li>Suitable particle size</li> </ul>	The mean particle size is approx. 0.4µm, so DHT-4A may be used even in ultra- thin films or fiber resins without altering the texture or appearance of the product.

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