



3770 Embassy Parkway Akron, Ohio 44333  
 330-535-2100 ♦ 800-321-2260 ♦ Fax 330-535-8947

**RUBBER CHEMICALS**  
**-ANTIOXIDANTS-**  
**NON-STAINING**

**ANTIOXIDANT 1024**

**DESCRIPTION:**

Antioxidant 1024 is a non-staining, high molecular weight, hindered phenolic antioxidant/metal deactivator. Its primary applications include deactivation of catalytic metals and improved properties in polymers exposed to “sour” gasoline (peroxide-containing). Extraction resistance in fuels and oils is excellent providing antioxidant protection in immersion, dry-out and aging testing.

**TYPICAL PROPERTIES:**

Appearance .....	white to off-white powder
Melt Point .....	224°C min.
Assay.....	98% min
Specific Gravity .....	1.12

**SOLUBILITY:**

All at 20°C: toluene <0.01%, acetone 1.0%, methylene chloride 0.25%, water <0.01%.

**APPLICATION:**

Antioxidant 1024 finds application in EPDM, ECO, crosslinked polyethylene, nylon, polyacetal and nitrile polymers. The metal deactivating function of Antioxidant 1024 provides better end-use heat and light stability (less discoloration) by deactivating metal catalyst residues present in many polyolefins and other polymers. Heat resistance and metal deactivation can be improved further by combining Antioxidant 1024 with a synergistic antioxidant like Antioxidant 58 or 60. Typical dosage is 0.02% - 0.50% by weight in plastic and 2.0 phr in rubber.

**Nitrile Compound Aged 2 weeks, 40 °C, sour gasoline:**

phr Antioxidant 1024	0	2
% tensile retained	31	54
% elongation retained	60	82

rh 7/15  
t-ao 1024

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.