

Milliken® Milliguard™ AOX

Antioxidant for Polyurethane

Milliguard AOX Antioxidant product portfolio consists of individually tailored proprietary blends that are based on a reactive, polymeric carbon-centered radical scavenger that are designed to protect thermoset polymers from oxidative degradation. These synergistic combinations are effective at low levels in polyurethane formulations to prevent scorch, improve gas fade resistance, and reduce emissions.

Advantages

- **Scorch reduction:** Reduces thermally induced degradation caused by high temperature during processing.
- **Reduced emissions:** VOC emissions can be significantly reduced with the inclusion of reactive antioxidants.
- **High level efficacy vs traditional AOs:** Milliguard AOX combinations are specifically tailored to enhance synergistic interactions and reduce overall loading levels.
- **Excellent compatibility** with polyether and polyester foams.
- **Reduced foam yellowing:** Milliguard AOX offerings are designed to minimize yellowing effects from exposure to UV light and to NOx fumes.



Technical Specifications

PROPERTY	AOX-1	AOX-111	AOX-112	AOX-125
Physical form	Liquid	Liquid	Liquid	Liquid
Color	Light Yellow to Amber	Light Yellow to Amber	Light Yellow to Amber	Light Yellow to Amber
Specific gravity (@ 25°C)	0.97	0.97	0.97	0.97
Viscosity (mPa.s @ 25°C)	< 20000	<1000	<1000	< 1000
pH	Neutral	Neutral	Neutral	Neutral
Hydroxyl number (mg KOH/g)	68	< 10	< 15	< 10
Phenol free	Yes	Yes	Yes	No
Amine free	Yes	Yes	Yes	Yes
VDA 278 compliant	Yes	No	Yes	No
Loading levels (%)	0.04 to 0.4	0.2 to 1.0	0.2 to 1.0	0.2 to 1.0

Please contact your Milliken representative for further product information including chemical registrations, food contact status, and other regulatory details.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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