



Emerald™ Good-rite® Antioxidants for Lubricants

Product	Type	Form	Key Features	Automotive - Engine	Automotive - ATF	Automotive - Gear	Marine - Trunk Piston	Marine - System Oil	Aviation - Turbine	Aviation - Hydraulic	Industrial - Gear	Industrial - Turbine	Industrial - Hydraulic	Industrial - Circulation	Industrial - Compressor	Industrial - Grease	Metal Removal
GOOD-RITE® 3131	Octyl Butylated Dipenylamine	liquid - yellow/red	Low residual DPA, ash and metal content. Outstanding thermal & oxidative performance at use levels of 0.1-0.4%. Synergistic with phenolics. Has indirect food approvals.														
GOOD-RITE® 3140	DPA substituted antioxidant	pastilles - yellow/red	High nitrogen content, high thermal stability and capacity antioxidant provides great value for long lasting thermal and AO protection.														
GOOD-RITE® 3128	Octyl Butylated Dipenylamine	liquid - clear, yellow/red tint	High Nitrogen, Low Ash content. Low treat levels (<1%). Controls deposits & sludge. Good Seal protection. Limits Viscosity build. Synergistic with phenol, ZPPD & molybdenum additives. Indirect food contact approvals @ <0.5%.														
GOOD-RITE® 3190	Octyl Styryl Dipenylamine	liquid - clear, reddish tint	Medium Nitrogen, Low Ash/Metal content. High temperature usability, low treat levels (<1%). Controls deposits & sludge. Ashless performance in crankcase. Synergistic with phenol & molybdenum additives.														
GOOD-RITE® 3185	Polyalkylated diphenylamine	liquid - clear, yellow	Medium Nitrogen content, very low DPA content. High temperature and oxidative stability. Controls deposits & sludge. Excellent high temperature viscosity, resistance to water extraction. Synergistic with phenols, ZPPD and molybdenum additives.														
GOOD-RITE® 3181	Diocylated Diphenyl Amine	granular powder - off-white	Low ash & residual metals. Excellent AO at high temperatures. High temperature thermal & oxidative AO.														

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Emerald Polymer Additives has been a leader in bringing antioxidant technology to rubber and plastics applications for over 70 years. With roots in technologies originally developed by B.F. Goodrich, Emerald brings a legacy of value to our customers with leading brands, innovation, service and operational excellence. Emerald produces both liquid and dry types of aminic antioxidants for lubricant applications. These AO's are excellent primary antioxidants providing both long term antioxidant and thermal protection.

Emerald Performance Materials Company produces and markets technologically advanced specialty chemicals for a broad range of food and industrial applications. Its products play a variety of roles in the products that are consumed and used every day enabling them to last longer, look, smell, taste or perform better. Emerald products are used in aerospace, food, beverages, cosmetics, toothpaste, household products, paint, tires, automobiles, sports gear and many other applications. Headquartered in Cuyahoga Falls, Ohio, Emerald has four business units, eight operations and approximately 700 employees to serve customer needs globally.

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