

PURUS[®]

CUT THE COST, NOT THE QUALITY.

“YOU CAN TAKE IT TO THE LAB.”

PURUS[®] FULL SYNTHETIC AW PREMIUM HYDRAULIC OILS



DESCRIPTION

PURUS[®] Full Synthetic AW Premium Hydraulic Oils are premium quality anti-wear hydraulic oils, which are formulated using advanced zinc based anti-wear additive technology, combined with full synthetic base oils.

PURUS[®] Full Synthetic AW Premium Hydraulic Oils are recommended for applications calling for: Fives Cincinnati (obsolete), Parker (formerly Denison) HF-0, HF-1, HF-2, Eaton (formerly Vickers) E-FDGN-TB002-E, AIST127 and 136, and DIN 51524 Part II (HM). Suitable for use in applications which cite former or obsolete specifications such as Fives Cincinnati P-68, P-69, P-70.

PURUS[®] Full Synthetic AW Premium Hydraulic Oils are purpose built to meet these industry drivers and challenges:

- Wider Operating Temperature Ranges & Severe Duty Performance
- Extended Equipment Life & Reduced Maintenance Costs
- Hydraulic System Cleanliness & Reliability

PERFORMANCE BENEFITS

INDUSTRY DRIVERS	PURUS SUPPORTING TECHNOLOGY	PURUS BENEFITS & ADVANTAGES
Wider Operating Temperature Ranges & Severe Duty Performance	<ul style="list-style-type: none">• Full synthetic base oils• High Viscosity Index (VI) formulation• Advanced zinc-based anti-wear additive technology	<ul style="list-style-type: none">• Maintains stable hydraulic performance across wide temperature ranges• Provides excellent cold-start flow and high-temperature protection• Improves hydraulic system efficiency in severe operating environments• Reduces viscosity breakdown under demanding conditions
Extended Equipment Life & Reduced Maintenance Costs	<ul style="list-style-type: none">• Outstanding oxidation and thermal stability• 7,000-hour oxidation protection• Advanced anti-wear chemistry	<ul style="list-style-type: none">• Extends oil drain intervals and fluid life• Reduces wear in pumps, valves, and hydraulic components• Minimizes downtime and maintenance frequency• Helps improve overall equipment reliability and productivity
Hydraulic System Cleanliness & Reliability	<ul style="list-style-type: none">• Rapid release of entrained air• Excellent rust and corrosion protection• Easy filterability	<ul style="list-style-type: none">• Reduces foaming and air entrainment issues• Protects systems from corrosion and moisture-related damage• Helps maintain cleaner hydraulic systems and filters• Improves hydraulic responsiveness and operational reliability

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TYPICAL PROPERTIES*

AW		22	32	46
ISO Viscosity Grade		22	32	46
Specific Gravity	ASTM D4052	0.839	0.848	0.849
Flash Point Deg °C	ASTM D92	232	241	237
Pour Point Deg °C.	ASTM D5950	-45	-42	-42
Color	ASTM D1500	0.4	0.4	0.4
Viscosity @ 40 Deg. °C, cSt	ASTM D445	21.38	32.64	51.28
Viscosity @100 Deg. °C, cSt	ASTM D445	4.542	5.875	8.488
Viscosity Index	ASTM D2270	129	125	141
Gravity, API	ASTM D97	37.1	35.37	35.18
Rust Test	ASTM D665	Pass	Pass	Pass
Dielectric Strength, kV	ASTM D877	30+*	30+*	30+*

*Dielectric strength will decrease if the oil becomes contaminated with dirt or even a very small amount of water



*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all of our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AIOD or its affiliates for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult your local AIOD Distributor if you require any further information.

PRODUCT	5 GAL PAIL	DRUM	TOTE	BULK
Synthetic AW 22	PHD27313	PHD17313	PHD57313	17313
Synthetic AW 32	PHD27314	PHD17314	PHD57314	17314
Synthetic AW 46	PHD27315	PHD17315	PHD57315	17315