



AVEX TO-4 FULLY SYNTHETIC

PRODUCT DESCRIPTION:

AVEX TO-4 is a high-performance transmission fluid specifically formulated for power shift transmissions, final drives, and wet brakes in heavy-duty off-highway equipment used in earthmoving, mining, logging, road transport, and agricultural applications. Blended with premium-quality base oils and advanced performance additives, it ensures excellent protection, smooth operation, and enhanced durability of critical components in demanding conditions.

APPLICATION:

AVEX TO-4 specifically designed to meet the performance requirements of caterpillar TO-4, Komatsu power shift transmissions, ZF torque converter transmissions and Allison C-4 automatic transmission. It is also used for heavy duty manual transmissions, gear boxes, final drives and hydraulic systems used in off highway equipment. Recommended for industrial torque converters and hydraulic systems where such type of fluids is specified.

FEATURES & BENEFITS:

- Good compatibility with all common seals, O rings, packing materials and clutch materials that leads to reduced downtime.
- Good low temperature fluidity.
- Quick start up of equipment.
- Excellent oxidation resistance and thermal stability for long fluid life.
- Protects against sludge and varnish formation.
- Protects against wear.
- Protects against rust and corrosion
- High shear stability
- Foam resistance

PERFORMANCE LEVELS: Meets or Exceeds:

- Caterpillar TO-4
- Allison TES 439
- Komatsu KES 07.868.1
- Allison C-4
- ZF TE-ML-03C
- API GL-4

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	AVEX TO-4			
			10W	30	50	60
Grade			10W	30	50	60
Kinematic Viscosity @ 104°F / 40°C	ASTM D7042	cSt	TBR	TBR	TBR	TBR
Kinematic Viscosity @ 212°F / 100°C	ASTM D7042	cSt	5.5	11.0	19.5	26.0
Viscosity Index (min)	ASTM D2270	-	140	140	140	140
Density@15°C/ 60°F	ASTM D4052	g/cm ³	TBR	TBR	TBR	TBR
Flash Point (min)	ASTM D92	°C	200	200	200	200
Pour Point (max)	ASTM D97	°C	-42	-42	-42	-42

DISCLAIMER: The test data presented above is for reference only and not a specification. It may vary within acceptable production tolerances. Alpha reserves the right to update this data, with the latest version of the Technical Data Sheet (TDS) taking precedence over previous versions.

HEALTH & SAFETY, ENVIRONMENT:

Extended and repeated exposure to oil may lead to skin issues. Avoid contact. If contact occurs, wash immediately with soap and water. Do not dispose of used oil in drains or the environment. Instead, take it to an authorized oil collection facility. For more safety information, please refer to the MSDS available on our website: www.alphaoil.ae

HEALTH & SAFETY:

When used correctly in the recommended application and with proper personal hygiene, this product is unlikely to pose significant health or safety risks. For detailed safety information, refer to the Safety Data Sheet (SDS), available upon request from your local sales office or online. www.alphaoil.ae

PROTECT THE ENVIRONMENT:

Dispose of used oil at an authorized collection point. Follow local regulations and avoid releasing it into drains, soil, or water.

STORAGE:

We recommend storing all packages under cover. If outdoor storage is necessary, drums should be placed horizontally to prevent water ingress and protect drum markings. Products should not be stored above 60°C or exposed to direct sunlight or freezing conditions.