



# Aral Vitam BS 68

Biodegradable hydraulic fluid based on saturated synthetic esters

## Description

Aral Vitam BS 68 is based on selected additives to ensure excellent oxidation stability, outstanding anti-corrosion and anti-wear properties as well as compability with bearing alloys containing lead. Due to the selection of synthetic base oil and saturated synthetic esters, the product has a very high viscosity index and an extremely low pour point.

It should be used in all hydraulic systems, where leakages may pollute natural water and drainage systems - for instance in earth-moving, agricultural and forestry machinery, refuse lorries, rail cars, presses and wrapping machines.

Note: Aral Vitam BS 68 is not soluble in water, but miscible with mineral oil and with rape seed oil based hydraulic fluids.

When changing from mineral oil based products to Aral Vitam BS 68, the system should be drained completely, as a mixture with mineral oil would have a reduced biodegradability and could cause foam problems in the system.

## Advantages

- Good oxidation and hydrolytic stability.
- Can tolerate low levels of mineral oil contamination and still maintain acceptable anti-foam performance.
- High shear stability.
- careful choice of the saturated synthetic ester enables the product to operate up to +120°C/+248°F system temperature.

## Typical Characteristics

Name	Method	Units	Aral Vitam BS 68
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m <sup>3</sup>	936
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	73
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	11.4
Viscosity Index	ISO 2909 / ASTM D2270	-	148
Air Release @ 50°C / 122°F	ISO 9120 / ASTM D3427	min	8
Pour Point	ISO 3016 / ASTM D97	°C/°F	-48/ -54
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	256/493
Acid Number	ISO 6619 / ASTM D664	mgKOH/g	0.82
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	11

Subject to usual manufacturing tolerances.

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