



## **AVISTA ANTIFREEZE CONCENTRATE P12+**

(ANTIFREEZE CONCENTRATE)

### **PRODUCT DESCRIPTION:**

**AVISTA ANTIFREEZE CONCENTRATE P12+** is a radiator protection agent concentrate which has to be diluted with water prior to use. Product is free of nitrites, amines, phosphates and silicates. Due to the carboxylic acid technology used, **AVISTA ANTIFREEZE CONCENTRATE P12+** offers outstanding corrosion and cavitation protection for aluminum and cast-iron engines.

**AVISTA ANTIFREEZE CONCENTRATE P12+** has been especially aligned to the requirements of aluminum and cast-iron engines in cars and commercial vehicles. Specially-developed additives prevent foaming and the formation of deposits.

**AVISTA ANTIFREEZE CONCENTRATE P12+** is a radiator protection agent concentrate which has to be diluted with water prior to use. An application concentration of at least 50 Vol.% is recommended all year round. To be able to use the product advantages of **AVISTA ANTIFREEZE CONCENTRATE P12+** to their full extent, a complete coolant changes and rinsing of the affected components is recommended.

### **Quality Advantages:**

- **Silicate-free** Additive Technology
- Product is free of nitrites, amines and phosphates
- Can be used in aluminum and cast-iron engines
- Can be mixed with other radiator protection agent concentrates with the same specifications
- Permanent protection against corrosion and cavitation
- Reliably prevents the formation of deposits
- Minimisation of foam tendencies

**We cannot guarantee sufficient corrosion protection below a concentration of 33 % AVISTA ANTIFREEZE CONCENTRATE P12+! The manufacturing regulations must be observed.**

### **MEETS / SUITABLE FOR USE:**

(Meets the requirements of the OEM-Approval. An approval by name from the manufacturer is not present.)

VW TL 774 F (G12+)





### Mixing Table:

Frost protection until [°C]	Antifreeze Concentrate	Water
-18	1	2
-24	1	1,5
-36	1	1

### TYPICAL CHARACTERISTICS AVISTA ANTIFREEZE CONCENTRATE P12+:

(The given data are typical data. Please observe operating prescriptions.)

Parameter	Method	Unit	
Density @ 20 °C	DIN 51 757		1.10
Alkalinity Reserve	ASTM D 1121	g/cm <sup>3</sup>	28 (pH: 5,5)
Boiling Point	ASTM D 1120	mm <sup>2</sup> /s	197
pH-Value	ASTM D 1287	mm <sup>2</sup> /s	7.5 – 8.5
Flash Point COC	DIN 51 758		111
Antifreeze @ 50 Vol.-%	ASTM D 1177	mg KOH/g	-36
Colour	In-house method	mPa*s	Violet

### AVAILABLE PACKAGING:

	Bulk	IBC	Drum	60 Liter	20 Liter	4 * 5 Liter	4*4 Liter	12 * 1,5 Liter
AVISTA ABTIFREEZE CONCENTRATE P12+			•					•

<sup>1</sup> Version 2 – 10/2017

<sup>1</sup> 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. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AVISTA OIL or its subsidiaries 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.

