



OEST COLOMETA SHD-AN2

Description

Water miscible coolant for metal cutting processes on individual machine tools as well as centralized systems. High performance combined with low consumption ensure the most economic and stable processes.












- fully synthetic, mineral oil free
- high cutting and grinding performance
- free from any bactericide (FAD, MIT,...), Boron, secondary Amines
- mild pH

Application











Universally applicable for demanding grinding processes and up to severe cutting operations (turning, milling, drilling...)

Universally applicable for all kind of materials (steels, stainless steels, titanium, yellow and light metals), particularly for most sensitive alloys.

Processes

turning	milling	drilling	deep drilling	Thread forming tapping	broaching	surface & cylindrical grinding	centerless grinding	profile grinding	preferred  qualified 
									

Materials

steels	cast iron	stainless steel	aluminium	yellow metals	titanium	Inconel	polymers & composites	carbide	preferred  qualified 
									

Developed for use in most demanding industry segments with regards to material compatibility and process safety, f.e. manufacturers and subcontractors for automotive, aerospace, medical engineering, etc



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OEST COLOMETA SHD-AN2 - BENEFITS

Perfect material compatibility

approved conformities

*) for MIT-containing version SHD-A

☺ Aluminium

no intergranular attac acc. Safran PR6300*, ASTM F2111: EN-AW 7050

no mass loss acc. Safran PR6300* SAE ARP1755: EN-AW 2024

BAC 5008 Rev.U: EN-AW 2024, 7075

no hot corrosion acc Safran PR6300*: EN-AW 2024

no sandwich corrosion acc. BAC 5008 Rev.U: EN-AW 7075

no corrosion / staining acc. AW013102: EN-AW 2007, 2024, 5083, 7082, 7075

no corrosion / staining acc. AW013102: EN-AC 47100, 51100

☺ Yellow metals

no corrosion / staining acc. AW013101: e-Cu, CuZn37

no Cu/Pb/Zn-leaching acc AW013200: CuZn39Pb3, Cu60Zn30Pb

☺ Titanium

no stress corrosion acc. Safran PR6300*: Ti6242

no mass loss acc. BAC 5008 Rev.U: Ti-6AL-4V

Titanium compatibility acc. BAC 5008 Rev.U: Ti-6AL-4V

☺ Steels

no hot corrosion acc. Safran PR6300*: ML 340, AISI 321

no intergranular attac acc. Safran PR6300*, ASTM F2111: M 250, ML 340

no mass loss acc. Safran PR6300*: M 250, ML 340

BAC 5008 Rev.U: 4130, 4130 Cadmium plated

inhibiting power acc. Safran PR6300*: 15CrMoV6

☺ compliant to EDF specifications for PMUC:

“Products and Materials Used in Electric, Nuclear or Thermal Power Plants”

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OEST COLOMETA SHD-AN2 - BENEFITS

High lubricity

- ☺ suitable for severe materials (titanium, stainless steel, Inconel)
- ☺ very low torque and friction in Microtap-test

Suitable for demanding operating conditions

☺ for all water hardnesses

°gh	0	2-5	6-10	11-20	21-40	41-60	>60	preferred qualified
ppm	0	35-90	91-170	171-350	351-710	711-1070	>1070	

☺ for highest coolant pressure > 100 bar / 1450 psi



Future proof formulation

- ☺ Compliant to all european regulations: REACH, CLP, TRGS 611, RoHS, etc.
- ☺ free from Boron, Formaldehyde-donors (FAD), Methylisothiazolinone (MIT), Monoethanolamine (MEA), any second. Amines, incl. Dicyclohexylamine (DCHA)
- ☺ no critical exposure limits
- ☺ safe process, not threatend with foreseeable restrictions for use

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OEST COLOMETA SHD-AN2 - DATA

Technical Data

Density (20°C)	1,06 g/cm ³
Kinematic viscosity (20°C)	21 mm ² /s
Corr. protection GG-chips	7% no corrosion
pH (5%)	7,8

Mixing recommendation

Manual mixing always by pouring concentrate into water (drinking quality) while stirring.

Easy to mix by automatic mixing device COLO MIX.

Recommended concentration:

Minimum:	7 %
Surface grinding:	7 %
Profile grinding, medium severe cutting:	9 - 10 %
Severe Cutting, severe materials:	11 - 18 %



Concentration control:

By refractometer: measurement °Brix x F_{refr} = Vol-%
F_{refr} = 1,9

HSE

Health & Safety:

Lubricants for metalworking and -treatment may contain hazardous ingredients. For detailed information, see the MSDS.

Water hazard class (german regulation): 2 (hazardous)

Transport & Storage

Storage temperature + 5 °C ... + 35°C.

Durability 12 months in closed packaging at recommended conditions.

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