

Revision: 4th of August, 2020

PRODUCT NAME	ITEM NO.	SUPPLEMENTARY DETAILS
Anti corrosion coolant	95014280	1 l
	95014281	5 l
	95014282	10 l

Description	Coolant and anticorrosive concentrate for use in wet abrasive cut-off machines. The primary use is related to materialographic sample preparation.
Material	2,2`-Oxydiethanol 10-25%, 2-Aminoethanol 5-10%, Boric acid 3-5%, Trimethyltriazinetriethanol 0.25-1% The further additives do not reach the thresholds for mandatory identification or can be considered nonhazardous.
Properties	The concentrate shows a low viscosity, and a clear orange color. The solution is colored slightly yellow and has a characteristic smell.
Application	Synthetical, concentrated grinding lubricant for application in abrasive cutting processes. The concentrate is soluble in water and may be used with medium-hard to hard water (3,5-20 °dH). It is free of nitrites, formaldehyde releasers and mineral oils. During cutting processes with abrasive cut-off machines, samples get cooled and lubricated. The anticorrosive inhibitors prevent the corrosion of samples and machine. Depending on the cut materials, it may become necessary to add other additives or adjust the mixing ratio of the solution. An adjustment of the solution should be carried out with a 0,5-1 vol.% coolant mixture. The concentrate can be mixed with tap water in a mixing ratio of 1:35 (2,85 vol.%). The solution has to be circulated in the machine before abrasive cutting. The mixed cooling solution must be checked and renewed regularly. The coolant is applicable for the following materials: steel, cast iron, non-ferrous metals e.g. brass and copper. It is not suitable for carbide - metals or magnesium alloys, but may be modified with ATM-Cool NF, ATM-CoolAdd CU and ATM-CoolClean B.
Health and safety	Ensure a good ventilation on the workplace to minimize inhalative exposition. Abrasive Cutting machines should be fitted with a mist-separator or connected to an adequate exhausting system. Always wear appropriate protective clothing, protective gloves (NBR, CR rubber with fitting permeation times) and a tightly sealed eye protection. In the case of dermal exposition, the contaminated area must be thoroughly rinsed with water and soap. Further information regarding first aid measures and safety regulations can be taken from the products SDS.
Environmental precautions	The product is assigned to water toxicity class 2. The contamination of phreatic and surface waters has to be prevented. The anti corrosion coolant may not be disposed as domestic waste. The disposal has to be conducted according to the local legislation. Depending on the application the disposal procedure may differ strongly due to present metal sludges. In the case of combustion toxic fumes are released, which makes the use of self-contained respiratory devices necessary. Water-spray, CO ₂ and foams can be used for extinguishing occurring fires.
Storage	The product is assigned to storage class 12. It has to be stored in tightly sealed containers in dry and cool (3-30°C) conditions. The storage room should be able to prevent the contamination of the sewage system or other water sources in the case of leakage. No further storage restrictions have to be taken into account.