

Revision: 7th of August, 2020

PRODUCT NAME	ITEM NO.	SUPPLEMENTARY DETAILS
ATM-CoolCut	95004145	1 l
	95004146	5 l
	95004147	10 l

Description	Coolant and anticorrosive concentrate for use in wet abrasive cut-off machines. The product is water miscible.
Material	Synthetic, solution based anti-corrosion coolant. 2,2´-(methylamino)diethanol 1-5%, 2-(2-butoxyethoxy)ethanol 1-5% Even though these hazardous substances are present, the mixture does not surpass any threshold values for mandatory identification and hence, is not classified according to CLP.
Properties	Slightly viscous, yellow fluid, weak characteristic smell, Flash point 142°C, explosive reaction with oxidizing agents like calcium chlorate or peroxides.
Application	The product is a water-soluble coolant and anticorrosive concentrate used in abrasive cut-off machines, grinding and polishing machines. It is free of formadehyde donors, boric acid, nitrites and mineral oils. It is used to ensure a proper lubrication and cooling of the cut material during the sampling process. It is applied at medium to high water hardness (3,5-30°dH). The organic components reduce the corrosive effects of water on sample and machine. Tensides guarantee a higher cleaning effect of the medium and offer a certain amount of lubrication. The product is diluted in the volumetric ratio of 1:25 (4 Vol%). This ratio is mainly used on abrasive-cut off machines working with a wide variety of materials. Specific applications may need higher or lower amounts of concentrate to obtain perfect results. The mixture has to be homogenized before using the cut-off machine. If water has to be added due to vaporization you always should add 0,5-1% anti corrosion coolant mixtures to prevent phase-separation. The mediums quality has to be controlled on a regular basis. ATM-CoolCut is suited for cutting and grinding steels, cast-iron and aluminum. It is suited for cutting non-ferrous materials. It is not perfectly suited for cutting carbide metals and titanium alloys and magnesium alloys. The product can be modified using ATM CoolAdd CU, ATM CoolAdd NF, defoamer and Mergal MV 1.5.
Health and safety	The Compliance with occupational limit values of the present hazardous substances has to be guaranteed. To reduce the inhalative exposition it is suggested to use exhaustion systems or centrifugal separators. A tightly sealed eye protection and suitable protective gloves (NBR with a sufficient permeation time) should be used while working with the diluted product. If the pure ATM-CoolCut is handled it is suggested to wear suitable protective clothing. In the case of dermal exposition, the affected area should be thoroughly cleaned with water and soap. Further information regarding first aid measures and safety instruction can be taken from the products SDS.
Environmental precautions	The product is classified in the water toxicity class 2. It has to be kept away from surface-/phreatic waters and sewage systems. ATM-CoolCut is hazardous waste and cannot be disposed with domestic waste. Depending on the cut materials (e.g. lead, uranium) the aquatic toxicity may be much higher than the one of the ordered product. In any case the disposal must be conducted according to local legislation. In the case of fires toxic decomposition products are released. Water-spray, CO ₂ and extinguishing powders are suitable extinguishing agents.
Storage	ATM CoolCut is assigned to storage class 10. It has to be stored in a tightly sealed container in a solvent resistant, dry and cool (3-30°C) storage container. The product should not be stored next to strong oxidants (e.g. org. peroxides). Further storage related information can be taken from the products SDS.