Technical Data Sheet

Additin® M 10384 Antirust-Additive

Type	Ashless anticorrosion additive	
Technical data*	Composition	Arylsulfonamidocarboxylic acid
	Appearance	white solid
	Neutralisation No.	145 mg KOH/g
	Melting point	approx. 105 °C (220 F)
	Active substance	approx. 75% weight

Application

Corrosion preventive for water soluble applications such as:

- aqueous hydraulic fluids
- metal working fluids, corrosion preventive emulsions
- off shore lubricants
- industrial cleaners
- and water treatment processes etc.

Additin M 10384 itself is not oil soluble and has limited water solubility. But alkali- or aminic salts of Additin M 10384 are water-soluble.

Alkali salts of Additin M 10384:
They are suitable as corrosion inhibitor systems for amine-free formulations.

Blends of Alkanolamines and Additin M 10384:
Alkanolamine salts of Additin M 10384 (MEA-,TEA-,DGA-, MIPA-, AMP-salts etc) are water-soluble showing good corrosion inhibition properties with cast iron and other ferrous alloys. In addition they do not lead to any discolouration effects on aluminium. They function in mineral oil based concentrates as well as in mineral oil free, fully synthetic transparent solutions. Alkanolamine salts of Additin M 10384 are shear stable and hard water resistant (no build up of water insoluble Ca-/ Mg- soaps) and therefore ideally suited for water based hydraulic systems, off shore lubricants and water based coolants. They have no tendency to form sticky residues, which is a positive aspect for industrial cleaners. Furthermore they demonstrate the superior temperature stability necessary for waterbased quenching fluids.

Additin M 10384 is odourless and therefore an ideal additive chemistry for critical processes, such as cutting or grinding where smell could be a problem. Should there be any tendency to foam then slight variations in the specific recipe and / or small additions of defoamers should rectify the problem.

	Corrosion protection properties: A 'Blend' of 42 wt-% Additin M 10384 and 58 wt-% Triethanolamine after 2h stirred at 70°C (158 F): Herbert-steel plate test (IP 125) with DIN-water (20°dH=178ppm CaCO3): 1% of the Blend shows S0/R0 (no black colour, no rust) Filter chip test (IP 287) with DIN-water: 2,5% of the Blend shows corrosion degree 0 Alkanolamine salts of blends of Additin M 10384 and triacine(s) in ratio of 1:1show synergistic properties in relation to corrosion protection performances. … further attributes of Additin M 10384: - no labelling requirements - biodegradable - non-toxic and not harmful to the environment - no built up of toxicological metabolites - not nitrosable on account of its “betaine-structure” - non-dusting solid material - easy handling of the 25 kg PE-bags.
Solubility	In alkali bases and in amines.
Test results	-
Packing unit	25 kg PE-bag
Storage conditions	In closed original PE-bag at ambient temperature approx. 12 months
Handling	Consult material safety data sheet (MSDS) for additional handling information on Additin M 10.384

® = registered trade mark * The analytical data are guide values. Additin M 10.384 is on EINECS and TSCA inventory.

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