



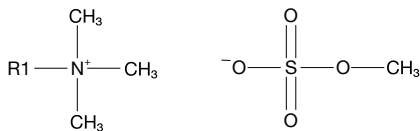
TETRANYL DM-24

Chloride-free
demulsifying agent



MAIN PROPERTIES

- Quaternary ammonium compound C₁₂₋₁₄ alkyltrimethyl, Me-sulfates
- Biodegradable according to EU648/2004
- Vegetable origin
- Strong hydrotropic effect
- Very strong demulsifying properties
- Chloride-free



R1= C12/14

REGIONAL AVAILABILITY

- EMEA
- ASIA
- LATAM
- AMERICA

DEMULSIFYING AGENT FOR AGED METALWORKING FLUID EMULSIONS

Naphthenic based metalworking fluid emulsions (100 g 5% dilution in 50°DIN / 893 ppm water stirred at 500 rpm) with addition 5.0 g red colored base-oil at 40°C was added with 0.5 g Tetranyl DM-24 to demulsify and split the emulsions:



Without
Tetranyl DM-24

Add on 0.5 g
Tetranyl DM-24





DEMULSIFYING AGENT AND CORROSION INHIBITOR FOR METAL CLEANING FORMULATIONS

CLEANER	m [g]			
	CLEANER	Benchmark 1	Benchmark 2	Tetranyl DM-24
TKPP (100%)		6	6	6
KOH (50%)		3	3	3
Benzotriazol (50%)		5	5	5
FINDET 10/18		1.5	1.5	1.5
AKYPO® ROX RLM 80V		1.5	1.5	1.5
Water	Market Cleaner	78	78	78
Sum =		95	95	95
Market Quat.		5	-	-
C ₁₂₋₁₄ Ammonium Quat.		-	5	-
Tetranyl DM-24		-	-	5
Sum =		100	100	100



DEMULSIFYING TEST (IN-HOUSE METHOD)

	m [g]				
Cleaner	1.5		<p>Cleaner Benchmark 1 Benchmark 2 Tetranyl DM-24</p>		
Forming oil (high amount of additives)	10				
H ₂ O	38.5				
Sum=	50				

Each metal cleaning formulation was mixed with a forming oil and water. After that these mixtures were stirred with the Ultraturax at ~18.000 rpm for 2 min. As final step the separation was observed (about 2 hours at 60°C).

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