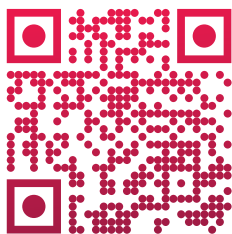


**INDO
AMINES
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OIL AND GAS

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Corrosion Inhibitors | Emulsifiers | Surfactants | Biocide

Oil and Gas

FATTY AMINES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	% PRIMARY AMINE	IODINE VALUE, gI2/100g	APPLICATION
Oleyl amine distilled	1213789-63-9	IAL OAD	Colorless to pale yellow liquid	200 – 215	99.0 Min	80.0 Min	Emulsifier
Stearyl amine distilled	90640-32-7	IAL SAD	Solid / Flakes	195 – 215	99.0 Min	3.0 Max	Emulsifier
Coco Amine Distilled	61788-46-3	IAL CAD	Colorless to pale yellow liquid	270 – 290	99.0 Min	12 Max	Emulsifier
FATTY DIAMINES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg OH/g	DIAMINE CONTENT	IODINE VALUE,gI2/100g	APPLICATION
Coco Diamine	61791-63-7	IAL CDA	Yellow to amber Pasty liquid	400 – 445	90.0 Min	12.0 Max	Secondary corrosion inhibitor & Biocide
Tallow Diamine	61791-55-7	IAL TDA	Yellow to amber Pasty Solid	325 – 355	90.0 Min	30.0 Min	Secondary corrosion inhibitor
Oleyl Diamine	7173-62-8	IAL ODA	Yellow to amber Liquid paste	320 – 340	90.0 Min	60.0 Min	Secondary corrosion inhibitor
FATTY AMINES AND FATTY DIAMINE ETHOXYLATES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	TOTAL AMINE VALUE mg KOH/g	pH (1 % Aq. SOLUTION)	APPLICATION
Coco Amine 2 EO	61791-31-9	INDOEMUL CA 2	Yellowish to brown viscous liquid	3 Max	187 - 199	> 9	Secondary corrosion inhibitor
Coco Amine 5 EO	61791-14-8	INDOEMUL CA 5	Yellow to amber Color Clear Liquid	12 Max	128 - 140	8.0 – 10.0	Secondary corrosion inhibitor
Coco Amine 15 EO	61791-14-8	INDOEMUL CA 15	Amber Color Clear Liquid	12 Max	60 - 70	8.5 – 10.0	Secondary corrosion inhibitor
Oleyl Amine 2 EO	25307-17-9	INDOEMUL OA 2	Yellowish to brown viscous liquid	8 Max	145 - 155	8.0 – 11.0	Secondary corrosion inhibitor
Tallow Amine 2 EO	61791-44-4	INDOEMUL TA 2	Paste	6 Max	150 - 160	8.0 – 10.0	Secondary corrosion inhibitor
Tallow Amine 5 EO	61791-26-2	INDOEMUL TA 5	Yellowish to brown viscous liquid	12 Max	115 - 125	8.0 – 11.0	Secondary corrosion inhibitor
Tallow amine 10 EO	61791-26-2	INDOEMUL TA 10	Amber Color Clear Liquid	10 Max	72 - 80	8.0 – 11.0	Secondary corrosion inhibitor
Tallow Amine 15 EO	61791-26-2	INDOEMUL TA 15	Amber Color Clear Liquid	10 Max	55 - 65	8.0 – 11.0	Secondary corrosion inhibitor
Tallow Diamine 3 EO	61790-85-0	INDOEMUL TDA 3	Amber color liquid / paste	17 Max	220 - 235	-	Secondary corrosion inhibitor
Tallow Diamine 12 EO	61790-85-0	INDOEMUL TDA 12	Dark Amber viscous Liquid	18 Max	125 - 135	> 9	Secondary corrosion inhibitor
FATTY ALCOHOL ETHOXYLATES							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (APHA)	HYDROXYL VALUE, mgKOH/g	pH, 5 % in DISTILLED WATER	APPLICATION
C12-14 Alcohol Ethoxylate 7 EO	68439-50-9	IAL LA 7	Colorless to pale yellow clear to turbid liquid	50 Max	105 - 125	6 – 8	Emulsifier, wetting agent/surface tension reducer
Nonyl Phenol 4 EO	9016-45-9	IAL NP 4	Color less to Pale yellow viscous liquid	50 Max	132 – 150	6 – 8	Oil -based mud additive -Secondary emulsifier
Nonyl Phenol 10 EO	9016-45-9	IAL NP 10	Color less to Pale yellow viscous liquid	50 Max	80 – 88	6 – 8	Emulsifier for mud additive & Wetting agent
Nonyl Phenol 12 EO	9016-45-9	IAL NP 12	Color less to Pale yellow viscous liquid	50 Max	70 – 80	6 – 8	Water-based mud additive - Emulsifier
QUATS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	ACTIVE CONTENT, %	COLOR (GARDNER)	pH (10%)	APPLICATION
Cocoalkylmethyl Ethoxylated (15)	61790-85-0	IAL QUAT CAE 15	Viscous liquid	> 95	13 Max	5 - 9	High temerature & High Brine formulations
Oleyl methyl ammonium chloride 2EO	18448-65-2	IAL QUAT OAE 0270 PG	Liquid	65 -70	8 Max	5 - 9	High temerature & High Brine formulations
Cocoamido Propyl Betaine 36%	61789-40-0	IAL CAPB 3610	Colourless to light yellow liquid	29-31	100 Max	5.0 - 7.0	Amphoteric surfactant
Cocoamido Propyl Betaine 44%	61789-40-0	IAL CAPB 4410	Colourless to light yellow liquid	36 - 38	100 Max	5.0 - 7.0	Amphoteric surfactant
OTHERS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	ACTIVE CONTENT, %	Moisture content	% PURITY(By GC)	APPLICATION
Dodecyl benzene sulphonic acid	27176-87-0	INDO LB	Dark brown viscous liquid	--	2.0 Max	-----	Paraffin inhibitor & Demulsifier
Morpholine	110-91-8	IAL-MORPHOLINE	Clear colorless liquid	--	0.5 Max	99.0 Min	Corrosion inhibitor
Cyclohexyl amine	108-91-8	IAL CHA	Colorless to pale yellowish liquid	--	0.5 Max	99.0 Min	pH control and Corrosion inhibitor
3-Methoxy Propyl amine	5332-73-0	IAL 3MOPA	Clear colorless Liquid	--	0.3 Max	99.5 Min	pH control and Corrosion inhibitor
N-Methyldiethanolamine	105-59-9	INDO MDEA	Colorless to pale yellow liquid	--	0.5 Max	99.0 Min	Gas sweetening and corrosion inhibitor
MMA Triazine	108-74-7	IAL TMMMA 42%	Clear to yellow liquid	41.5 - 43.5	--	--	H2S scavenger
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	SAONIFICATION VALUE, mg KOH /g	HYDROXYL VALUE, mgKOH/g	APPLICATION
Sorbitan Mono Oleate	1338-43-8	IAL SMO HO	Amber Viscous liquid	5.0 Max.	145 - 160	190 - 210	Emulsifier and dispersant