

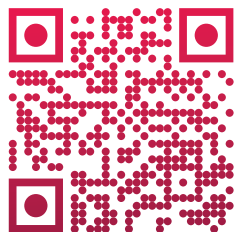


**INDO
AMINES
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LUBRICANTS

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LUBRICANTS PORTFOLIO

FATTY AMINES

NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE, mg KOH/g	% PRIMARY AMINE	IODINE VALUE, gI2/100g	APPLICATION
Tallow Amine	61790-33-8	IAL TAD	Pasty/Solid - White to pale yellow	200 – 215	99.0 Min	35 – 55	Lube oil additive
Oleyl Amine	1213789-63-9	IAL OAD	Colourless to pale yellow liquid	200 – 215	99.0 Min	80 Min	Lube oil additive
Lauryl amine	124-22-1	IAL LAD	Color less to pale yellow solid	295 – 304	99.0 min	3.0 Max	Lube oil additive
Octyl amine	111-86-4	IAL OTAD	Colourless to pale yellow liquid	425 – 445	98.0 % Min	-----	Additive for corrosion inhibitor in lubricants and greases
Stearyl amine	90640-32-7	IAL SA	White Flakes	195 – 215	95.0 Min.	5.0 Max	Filming and lubrication additive to reduce friction
Coco amine	61788-46-3	IAL CAD	Colorless to pale yellow liquid	270 – 290	99 Min	12.0 Max	Lube oil additive
Di-Stearyl Amine	112-99-2	IAL DSA	Yellowish pasty solid	98 -107	-----	-----	For engine oil & industrial lubricants

FATTY AMINES

NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE, mg KOH/g	DIAMINE CONTENT	IODINE VALUE, gI2/100g	APPLICATION
Lauryl Diamine	5538-95-4	IAL LDA	Yellow to amber Pasty liquid	432 – 456	90.0 Min	-----	Lubricating oil additive
Coco Diamine	61791-63-7	IAL CDA	Yellow to amber Pasty liquid	400 – 445	90 Min	12 Max	Lubrication and surfactant for chain lube
Tallow Diamine	61791-55-7	IAL TDA	Yellow to amber Pasty Solid	325 – 355	90.0 Min	30.00 Min	Lubrication and surfactant for chain lube
Oleyl Diamine	7173-62-8	IAL ODA	Yellow to amber Liquid paste	320 – 340	90.0 Min	60.0 Min	Lubrication and surfactant for chain lube

POLYETHERS

NAME	CAS.NO	BRAND NAME	APPEARANCE	%, WATER CONTENT (By KF)	HYDROXYL VALUE, mgKOH/g	pH, 5 % in DISTILLED WATER	APPLICATION
Polyethylene Glycol 200	25322-68-3	IAL PEG-200	Color less to pale yellow viscous liquid	0.5 Max	535 – 590	4.5 – 7.5	Lubricant Modifier
Polyethylene Glycol 4000	25322-68-3	IAL PEG-4000	White to creamy white wax like solid or flake	0.5 Max	20 – 35	4.5 – 7.5	Lubricant Modifier
Castor Oil 36 Ethoxylate	61788-85-0	IAL CO 36	Clear viscous liquid	0.5 Max	-----	6.0 - 8.0	Soluble cutting oils & wire drawing lubes

POLYETHERS

NAME	CAS.NO	BRAND NAME	APPEARANCE	SAPONIFICATION VALUE	Iodine Value, cgm of Iodine/gm	pH, 5 % in DISTILLED WATER	ACID VALUE	APPLICATION
Polysorbate 60	9005-67-8	IAL PSB 60	Oily light yellow to amber color viscous, Opaque liquid	45 - 55	81 - 96	5-7	2.0 Max	Lube oil additive
Oleic Acid 70%	112-80-1	IAL SPL 70	Colorless to yellow liquid	196 – 206	90 – 105	-----	195-205	Thickener for mineral oil