



JARCOL™

UNSATURATED OLEYL ALCOHOLS

cosmetics
paints
surfactants
printing inks
emulsifiers
pharmaceuticals
lubricants
rubber
textiles
plastics
detergents
paper coating
adhesives

JARCOL™ UNSATURATED OLEYL ALCOHOLS

JARCOL™ Unsaturated Alcohols are produced by high-pressure reduction from either vegetable (B series) or tallow (A or AN series) unsaturated fats. They are primarily Oleyl Alcohol, which is a straight chain, monohydric, monounsaturated primary alcohol. Jarchem offers the broadest and most versatile product line the industry.

Special Features

- Have lower melting point when compared with the saturated alcohol counterpart.
- The carbon-carbon double bonds allow greater reactivity.
- Their liquid consistency leads to multiple fields of application.
- The additional double bond in the molecule contributes considerably to polarity and results hence in a higher affinity to metal surfaces, interfacial activity, spreadability and solubility.

The B series products:

- Exhibit excellent safety to the global environment.
- Have very mild odor to almost odorless.
- Have excellent bright and light color and heat stability, particularly the 90IV+ grades.

The 90+ IV Grades:

- Remain a clear, bright liquid at near freezing temperatures.
- Have very low odor.
- Have light color.
- Have excellent color and heat stability.
- Meet USP/NF specification.
- 90BHR and 95BJ have superior color and odor stability.

Applications

COSMETICS / PHARMACEUTICALS

- Oily component for cosmetic and pharmaceutical preparations: e.g. W/O creams, sun tan oils and skin oils.
- Solvent for lipstick colors.
- Dispersing agent for color pigments.
- Superfating agent for washing lotions, foams baths, alcohol-containing preparations (hair lotions, aerosol sprays).
- Alkoxylated derivatives as emulsifiers.
- Ester derivatives as emollients.
- Raw material for biodegradable surfactants.

TEXTILES

- In combination with nonionics they are used as creak fiber finishes.
- Esters as thermostable and biodegradable lubricants in spin finishes.

METAL WORKING AND LUBRICATION

- Components in lubricants (high affinity to metal surfaces).
- Raw material for extreme pressure (EP) additives (addition of sulfur) in metal treatment oils.
- As lubrication enhancers and coupling agents in cooling and cutting fluids.

PAINTS AND INKS

- Co-emulsifier and solubilizer in ink pastes, and specialty inks.

MISCELLANEOUS

- Used as denaturing agent for olive oil, which is not used in the food industry.
- Used for neutral, non cross-linking, special plasticizers for stencils based upon nitrocellulose. Advantage: JARCOLS are acid free (no attack on the rubber rollings), higher elongation and tensile strength of the products.
- Anti-foaming agents for numerous technical purposes, especially for technical gas washing with alkanolamines and in emulsion paints.
- JARCOLS are capable of participating in Diels Alder reactions with activated double bonds (synthetic resins).
- The thermal catalytic dimerisation to long chain diols (C36) has achieved technical importance; used in polyurethane resins.
- Alkoxylated derivatives as adjuvants in crops and agriculture.
- Coemulsifier in pesticides, and oily based polishing agents.
- Raw material for epoxides.
- Raw material for concrete release mold agents.
- Other uses are constantly being identified.

PHYSICAL & CHEMICAL DATA

SPECIFICATION

TYPICAL COMPOSITION

JARCOL™	MAIN COMPONENT	APPEARANCE	ACID VALUE	SAPONIFICATION VALUE	IODINE VALUE	HYDROXYL VALUE	CLOUD POINT (C°)	MOISTURE (%)	COLOR (HAZEN) APHA	C12	C14	C16	C18	C20
50A	Tallow Alcohol	White Solid	0.2 Max.	1.0 Max.	45-55	210-220	30-40	0.5 Max.	100 Max.	0.3	3	27	65	-
50B	Oleyl/Cetyl Alcohol	White Solid	0.2 Max.	1.0 Max.	45-55	210-220	30-40	0.5 Max.	100 Max.	0.3	0.3	30	69	0.5
60AN	Tallow Alcohol	White Solid	0.2 Max.	1.0 Max.	57-63	205-220	25-35	0.5 Max.	100 Max.	0.3	3	25	68	-
60B	Oleyl/Cetyl Alcohol	White Solid	0.2 Max.	1.0 Max.	57-63	205-220	25-35	0.5 Max.	100 Max.	0.4	0.4	26	73	0.5
70AN	Oleyl Alcohol	Yellow Clear Liquid	0.2 Max.	1.0 Max.	70-80	205-220	18-25	0.5 Max.	100 Max.	0.3	3	18	74	-
70SP	Oleyl Alcohol	Colorless Clear Liquid	0.2 Max.	1.0 Max.	72.5-81.5	206-224	21 Max	0.5 Max.	100 Max.	-	5	20	75	-
75BJ	Oleyl Alcohol	Colorless Clear Liquid	0.2 Max.	1.0 Max.	70-75	208-218	19-24	0.3 Max.	100 Max.	0.4	5.5	20	74	0.5
80AN	Oleyl Alcohol	Yellow Clear Liquid	0.2 Max.	1.0 Max.	80-85	205-215	20 Max.	0.5 Max.	100 Max.	0.3	3	14	77	-
85BJ	Oleyl Alcohol	Colorless Clear Liquid	0.2 Max.	1.0 Max.	84-89	205-215	6-14	0.3 Max.	50 Max.	0.5	0.5	9	90	0.5
90N	Oleyl Alcohol	Yellow Clear Liquid	0.5 Max.	2.0 Max.	85-95	205-215	6 Max.	0.3 Max.	100 Max.	0-3	3	12	79	-
90BHR	Oleyl Alcohol	Colorless/Odorless Clear Liquid	0.2 Max.	1.0 Max.	85-94	205-215	6 Max.	0.3 Max.	50 Max.	nil.	0.1	4	95	0.5
95BJ	Oleyl Alcohol	Colorless/Odorless Clear Liquid	0.1 Max.	0.3 Max.	90-98	195-210	5 Max.	0.2 Max.	20 Max.	0.6	0.6	5.2	93	0.5
110BJ	Oleyl/Linoleyl Alcohol	Yellow Semisolid	0.2 Max.	1.0 Max.	110-135	200-220	10-21	0.5 Max.	100 Max.	-	-	5-10	90-95	0-3

REGISTRY DESIGNATIONS

	CAS #	EINECS #
C12	112-53-8	203-982-0
C14	112-72-1	204-000-3
C16	36653-82-4 10378-01-5	253-149-0 233-831-4
C18	112-92-5 143-28-2 506-43-4	204-017-6 205-597-3 208-038-1
C20	629-96-9	211-119-4

OLEYL ALCOHOL SOLUBILITY

ACETONE	ETHYL ETHER	PETROLATUM
BEESWAX	ISOPROPYL ALCOHOL	SOLID PARAFFIN
BENZENE	KEROSENE	LIQUID PARAFFIN
CETANOL	LIQUID PARAFFIN	TURPENTINE
COTTONSEED OIL	MINERAL OIL (LIGHT)	VM&P NAPHTHA
ETHANOL (99.5%)	OLIVE OIL	

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