



***Pride***

*Ethyl Alcohol*

**Authorized Distributors For:**



**Pure Ethyl Alcohol**

	Proof			Bulk	Packages	
	190	192	200		Drums	Totes
Grain	.	.	.	.	.	.
Grain - Gluten Free	.	.	.	.	.	.
Synthetic	.	.	.	.	.	.
QAI Certified Organic Wheat	.	.	.	.	.	.
QAI Certified Organic Sugar Cane	.	.	.	.	.	.
Sugar Cane Non GMO Project Certified	.	.	.	.	.	.

Typical Properties	190 proof	200 proof	Test Method
Ethyl alcohol content, % volume, min.	95.0	99.9	(1)
Specific gravity @ 60/60 deg F (air) max.	0.8158	0.7936	ASTM D 4052
Color, Pt.-Co max	5	5	ASTM D 1209
Acidity, Calc. as acetic acid, % wt max.	0.0014	0.0014	ASTM D 1613
Non-volatile matter, % wt. max.	0.0025	0.0025	ASTM D 1353
Water, % wt.	7.58	0.13	ASTM D 1364
Permanganate fading time, minutes, min.	50	30	ASTM D 1363
Odor	Characteristic Non-Residual	Characteristic Non-Residual	(2)

Meets all specifications of USP Monograph, The Pharmacopeia of the United States of America, for ethyl alcohol.

(1) As specified in 27 CFR Part 30, or other TTB approved method.

(2) Samples are diluted with two volumes of odor-free distilled water and their odors evaluated with respect to a standard sample.

## Special Industrial Solvents (27 CFR 20.112)

Special Industrial Solvents are a series of modified ethyl alcohol solvents based on Formula SDA 3A. They are available in the range of compositions shown in the following tables which list the typical physical properties of each formula. Since these Special Industrial Solvents are offered in a variety of compositions and do not contain hydrocarbons, they can be used in many applications where their effect on rubber is important, such as the printing industry where they contact rubber rolls or plates.

Special Industrial Solvents are a major component in the formulation of flexographic and other printing inks. These solvents are also used for cleanup and in other operations in printing plants.

Special Industrial Solvents are also used in coatings, particularly those using alcohol soluble resins, such as shellac in photographic film processing, and as a latex coagulant.

Authorized Composition (gal.)	SIS-A1-190 PM-4081 (A-2)	SIS-A2-190 PM-4079 (A-4)	SIS-B1-190 PM-4157 (B-2)	SIS-C1-190 PM-4085 (C-2)	SIS-D1-190 PM-4080 (D-2)	SIS-D2-190 PM-4078 (D-4)
SDA-3A (1) (190 proof formula)	100	100	100	100	100	100
Isopropyl alcohol (anhyd.)	10		5		15	
Methyl alcohol		10	5			15
Ethyl acetate (85%)				5		
Methyl isobutyl ketone	1	1	1	1	1	1
<b>Typical Properties</b>						
Pounds per gallon @ 60 deg F	6.676	6.769	6.768	6.814	6.757	6.761
Specific gravity, 60/60 deg F (Air)	0.8124	0.8128	0.8127	0.8184	0.8113	0.8120
Distillation range, deg C	76-80	74-80	75-80	75-80	76-81	74-80
Acidity, calc. as acetic acid, % wt.	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Non-volatile matter, g/100 ml.	0.001	0.001	0.001	0.001	0.001	0.001
Color, Pt-Co.	5	5	5	5	5	5

### NOTES:

(1) 100 gallons of 190 proof ethyl alcohol denatured with 5 gals. methyl alcohol.  
Also Available - use SIS names

## Ink Solvents

Ink Solvents are a series of special industrial blends of denatured alcohol designed specifically for the ink and printing industry.

Authorized Composition (gal.)	PS-612-190 PM 6127 190 pf.	PS-612-200 PM 6129 200 pf.	PS-642-200 PM 6118 200 pf.	PS-663-200 PM 6193 200 pf.	PS-672-200 PM 6264 200 pf.	SIS-D4-200 PM 6288 200 pf.
SDA-3A (190 pf.)	85					
SDA-3A (200 pf.)		85	89			
SDA-3C (200 pf.)				89	95	90
Methyl Alcohol	14	14	10			
Isopropanol				10		9
n-Propyl Acetate	1	1	1	1	5	
MIBK						1
Resultant Volume	100	100	100	100	100	100

For more information on Pure Ethyl Alcohol, SDA, SIS, CDA, and Ink Solvents visit our website at [PrideSol.com](http://PrideSol.com)

## Completely Denatured Ethyl Alcohol

Completely denatured ethyl alcohol is prepared from pure ethyl alcohol according to formulas approved by the TTB, and contained in Part 21 of Title 27 of the Code of Federal Regulations.

Completely denatured ethyl alcohol or C.D. alcohol, contains a concentration of denaturants that render the alcohol totally unfit for human consumption. As a result, C.D. alcohol may be used with minimum federal restrictions.

Authorized Composition (gal.)	CD-19
Ethyl alcohol	100
Methyl isobutyl ketone	4.0
Kerosene, deodorized kerosene, gasoline, unleaded gasoline, rubber hydrocarbon solvent, or heptane	1.0

Typical Properties	CD-19	
	190 pf formula	200 pf. formula
Specific gravity @ 60/60 deg F (air)	0.8134	0.7931
Pounds per gallon @ 60 deg F	6.774	6.605
Ethyl alcohol content Absolute basis, % vol.	90.5	95.2
Apparent proof	190	199.7

## Proprietary Solvents (27 CFR 20.113)

Proprietary Solvents are ethyl alcohol formulations approved by the TTB. Specially Denatured Alcohol No. 1 is used in the preparation of these proprietary solvents which possess excellent solvent characteristics and hence find use in a variety of solvent applications.

Among the many uses for Proprietary Solvents is that of a latent solvent for use with nitrocellulose resins. When incorporated into solvent systems containing active solvents such as acetone, methyl ethyl ketone, or methyl isobutyl ketone, targeted performance properties are achieved at minimum costs.

The same result can be expected when Proprietary Solvents are used in applications involving other cellulosic resins. Perhaps the broadest use for them is as a thinner for shellac. Proprietary Solvents work well when used to prepare spirit varnishes, and other coatings and inks, adhesives, ink and spot removers.

Authorized Composition (gal.)	PF-1-190 (PM 41) 190 pf.	PF-1-200 (PM 100) 200 pf.	PF-111-190 (PM 3224) 190 pf.	PF-111-200 (PM 509) 200 pf.
TTB Formula (1)				
SDA No. 1,190 pf. (2)	100		100	
SDA No. 1,200 pf. (2)		100		100
Ethyl acetate (85-88%)	5	5	1	1
Gasoline or rubber hydrocarbon solvent	1	1	1	1
Methyl isobutyl ketone			1	1

Typical Properties	PF-1-190 (PM 41) 190 pf.	PF-1-200 (PM 100) 200 pf.	PF-111-190 (PM 3224) 190 pf.	PF-111-200 (PM 509) 200 pf.
Specific gravity, 60/60 deg F (Air)	0.8172	0.7989	0.81	0.7953
Pounds per gallon @ 60 deg F	6.806	6.652	6.786	6.622
Color, Pt-Co.	5	5	5	5
Acidity, calc. as acetic acid, % wt.	0.0015	0.0015	0.0015	0.0015
Distillation range, deg C	74-79	75-79	73-79	75-79
Non-volatile matter, g/100 mil	0.001	0.001	0.001	0.001
Apparent proof	189.1	197.8	190.3	199.2

## Specially Denatured Ethyl Alcohol Formulations

Authorized Composition (gal.)	SDA-1 <sup>(1)</sup>	SDA-2B	SDA-3A	SDA-3C
Ethyl alcohol	100	100	100	100
Methyl alcohol	4		5	
Toluene, rubber hydrocarbon solvent, or heptane		0.5		
Methyl isobutyl ketone	1			
Isopropyl alcohol				5
Resultant volume	105.0	100.5	105.0	105.0

Typical Properties	SDA-1		SDA-2B		SDA-3A		SDA-3C	
	190 pf. formula	200 pf. formula	190 pf. formula	200 pf. formula	190 pf. formula	200 pf. formula	190 pf. formula	200 pf. formula
Ethyl alcohol content								
Absolute (200 pf.) basis % Vol.	90.5	95.2	94.5	99.5	90.5	95.2	90.5	95.2
Absolute (200 pf.) basis % wt.	88.1	95.2	91.9	99.5	88.1	95.3	88.1	95.3
Apparent proof at 60 deg F	190.4	199.7	190.0	199.7	190.6	199.9	190.5	199.9
Specific gravity, 60/60 deg F (air)	0.8151	0.7938	0.8159	0.7939	0.8149	0.7938	0.8146	0.7935
Weight per gallon at 60	6.788	6.611	6.795	6.612	6.785	6.609	6.784	6.608

Authorized Composition	SDA-35A	SDA-38B
Ethyl alcohol, gal.	100	100
Ethyl acetate, gal.	4.25 (100% ester) or 5 (85% ester)	
Denaturant <sup>(1)</sup> lb.		10
Resultant volume, gal.	105	101.3

Typical Properties	SDA-35A		SDA-38B	
	190 pf. formula	200 pf. formula	190 pf. formula	200 pf. formula
Ethyl alcohol content				
Absolute (200 pf.) basis % vol.	90.5	95.2	93.8	98.7
Absolute (200 pf.) basis % wt.	87.7	94.8	91.1	98.5
Apparent proof at 60 deg F	188.6	198.6	189.4	199.4
Specific gravity, 60/60 deg F (air)	0.8185	0.7974	0.8170	0.7951
Weight per gallon at 60 deg F, lbs.	6.817	6.641	6.804	6.622

NOTES: (1) See website for 38B approved denaturants

Authorized Composition	SDA-40A	SDA-40B
Ethyl alcohol, gal.	100	100
Tertiary butyl alcohol, gal.	1/8	1/8
Sucrose octa acetate, lb.	1	
Denatonium benzoate, NF, (Bitrex) av. oz.		1/16
Resultant volume, gal.	100.2	100.1

Typical Properties	SDA-40-A		SDA-40B	
	190 pf. formula	200 pf. formula	190 pf. formula	200 pf. formula
Ethyl alcohol content				
Absolute (200 pf.) basis % vol.	94.8	99.8	94.9	99.9
Absolute (200 pf.) basis % wt.	92.0	99.6	92.2	99.9
Apparent proof at 60 deg F	189.7	199.7	189.9	199.9
Specific gravity, 60/60 deg F (air)	0.8163	0.7941	0.8158	0.7937
Weight per gallon at 60 deg F, lbs	6.798	6.613	6.794	6.610



**PRIDE CHEMICAL SOLUTIONS, INC.**

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6 Long Island Ave.  
Holtsville, N.Y. 11742  
631 758-0200



**PRIDE CHEMICAL SOLUTIONS OF N.J., INC.**

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211 Randolph Ave.  
Avenel, N.J. 07001  
732 499-0123