

## INDIAN STANDARD SPECIFICATIONS FOR Absolute Alcohol

## INDIAN STANDARD SPECIFICATIONS FOR Absolute Alcohol (IS :321 – 1964)

Sr. No	Characteristics	Requirement of Rectified Spirits		
NO		Required for :		
		Special Grade	Grade - I	Grade - II
1	Specific gravity at 15.6°/15.6° (or 60°/60° F)	0.7961	0.7961	0.7961
2	Ethanol Content:- a) Percent by volume at 15.6° C (or 60° F) Max.	99.50	99.50	99.50
3	Miscibility with water	Miscible	Miscible	Miscible
4	Alkalinity	NIL	NIL	NIL
5	Acidity (as CH₃ COOH) % by weight, Max.	0.006	0.006	0.006
6	Residue on evaporation % by weight, Max.	0.005	0.005	0.005
7	Aldehyde content (as CH₃CHO) Gms/100 ml, Max.	0.10	0.006	0.005
8	Ester content (as CH₃COOC₂H₅) Gms/100 ml, Max.	0.02		
9	Copper (as Cu),gms/100 ml,Max.		0.004	
10	Lead (as Pb), gms/100 ml, Max.		0.0001	
11	Methyl Alcohol content		To satisfy the requirement of test	
12	Fusel oil content		To satisfy the requirement of test	
13	Ketones, isopropyl alcohol & tertiary butyl alcohol		To satisfy the requirement of test	
14	Total Surfer and compounds of Sulphur (as S),% by mass. Max.	0.001		
15	Sulphur DI-Oxide (as SO <sub>2</sub> ). % by weight, Max.	0.00005		



## $\underline{\textbf{INDIAN STANDARD SPECIFICATIONS FOR EXTRA NEUTRAL ALCOHOL}}$

( IS: 6613 - 1972)

Sr. No	Characteristics	Requirement
1	Relative density at 15/15°C	0.81245 to 0.81679
2	Ethanol Content,% by Volume. At 15.6°C	94 to 95
3	Miscibility with water	Miscible
4	Alkalinity	NIL
5	Acidity (as CH₃COOH). Gms/100 ml, Max.	0.002
6	Residue on evaporation	0.002
7	Esters (as CH₃OOC₂H5), gms/100 ml.Max.	0.01
8	Lead (as Pb), gms/100 ml, Max.	NIL
9	Methyl alcohol content	To pass the test
10	Furfural Content	To pass the test
11	Aldehyde (as CH₃CHO),gms/100 ml. Max.	0.004
12	Permangnate reaction time, Minutes, Min.	30
13	Copper (Cu), gms/100 ml, Max.	0.002
14	Isopropyl Alcohol, acetone and other ketoses	To pass the test
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## INDIAN STANDARD SPECIFICATIONS FOR RECTIFIED SPIRIT (IS :323 – 1959)

Sr. No	Characteristics	Requirement of Rectified Spirits : Required for :		
110		Grade - I	Grade - II	
1	Specific gravity at 15.6°/15.6° (or 60°/60° F)	0.8171	0.8171	
2	Ethanol Content :- a) Percent by volume at 15.6° C (or 60° F) Min.	94.68	94.68	
	b) Degree Over-proof, Min.	66.00	66.00	
3	Miscibility with water	Miscible	Miscible	
4	Alkalinity	NIL	NIL	
5	Acidity (as CH₃ COOH) % by weight, Max.	0.002	0.01	
6	Residue on evaporation % by weight, Max.	0.005	0.01	
7	Aldehyde content (as CH₃CHO) Gms/100 ml, Max.	0.006	0.10	
8	Ester content (as CH₃COOC₂H₅) Gms/100 ml, Max.	0.02		
9	Copper (as Cu),gms/100 ml,Max.	0.004		
10	Lead (as Pb), gms/100 ml, Max.	0.0001		
11	Methyl Alcohol content	To satisfy the requirement of test		
12	Fusel oil content	To satisfy the requirement of test		
13	Furfural content	To satisfy the requirement of test		