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**CHINESE STANDARD FOR “DENATURED FUEL ETHANOL”
GB 1850-2013**

Date of Implementation – Nationwide: May 1, 2014
Spec Name: GB 18350-2013
Grade: Anhydrous Fuel Grade
Source: Standardization Administration of the
People’s Republic of China

PROPERTY	LIMITS	TEST METHOD ⁽¹⁾
Ethanol, vol%, min	92.1	ASTM D 5501
Methanol, vol%, max	0.5	ASTM D 5501
Gum (solvent washed), mg/100mL, max	5	ASTM D 381
Water, vol%, max	0.8	ASTM E 203
Inorganic chloride, mg/L, max	8	ASTM D 7319
Acidity (acetic acid) mg/L, max	56	ASTM D 1613
Copper, ppm, max	0.08	ASTM D 1688
pHe	6.5 ~ 9.0	ASTM D 6423
Sulfur, mg/kg, max.	30	ASTM D 5194 or D 5453
Denaturant, vol%, max	0.99 ~ 4.76 ⁽²⁾	Calculated
Appearance	Clear and transparent, no visibly suspended particles and sediments	ASTM D 4175
Density at 20° C., g/m ³	0.7918 ~ 0.7893	ASTM D 4052

Notes:

1. U.S. ASTM Test Methods equivalent to GB (China) Test Methods
2. Fuel ethanol is to be mixed with the denaturant in a ratio of 100:1 – 100:5