



Ethanol

FUEL ETHANOL

Product Code 017609

Specifications

ADM Fuel Ethanol meets the current ASTM D4806 “Standard Specification for Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel”. The ASTM specification is as follows:

Ethanol, volume %, min	92.1	ASTM D5501
Methanol, volume %, max	0.5	
Existent Gum, (solvent washed) mg/100mL, max	5.0	ASTM D381
Water Content, volume %, max	1.0	ASTM E203
Denaturant content, volume %, min	1.96	
Denaturant content, volume %, max	5.0	
Inorganic Chloride Content, mg/L, max	32	ASTM D512
Copper Content, mg/kg, max	0.1	ASTM D1688
Acidity (as acetic acid), mass %, max	0.007	ASTM D1613
pHe	6.5 to 9.0	ASTM D6423
Sulfur, mass ppm, max	30.	
Sulfate, mass ppm, max	4	ASTM D7319, D7328
Appearance	Visibly free of suspended or precipitated contaminants, clear and bright	

Additional ADM Specifications (to comply with California Air Resources Board specs)

Sulfur, ppm, max	10	ASTM D5453
Benzene, volume %, max	0.06	ASTM D5580
Olefins, volume %, max	0.5	ASTM D1319
Aromatics, volume %, max	1.7	ASTM D5580

Corrosion Inhibitor

ADM adds a corrosion inhibitor (DCI-11) to all fuel ethanol at a target treat rate of 20 pounds per thousand barrels.

ADM Fuel Ethanol will meet the requirements of the state for its intended use.

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