

GRAIN NEUTRAL SPIRITS (GNS) - 192 PROOF BEVERAGE ALCOHOL SPECIFICATIONS
(CORN FEEDSTOCK)

<u>Parameter</u>	<u>Units</u>	<u>Limits</u>	<u>Method</u>
Proof, at 15.56° C		≥ 192.2	ASTM D 4052
Odor		Typical	ASTM D 1209
Appearance		Clear and Bright	Visual
Color	Pt-Co	≤ 10	ASTM D 1209
Acidity, as acetic acid	% wt.	≤ 0.0007	ASTM D 1613
Conductivity	μMOS/cm	≤ 10	ASTM D 1125
UV Abs.	@ 240 nm	≤ 0.40	UV
UV Abs.	@ 250-260 nm	≤ 0.30	UV
UV Abs.	@ 270-340 nm	≤ 0.10	UV
UV Curve		Smooth	UV
Esters (Ethyl Acetate)	Mg/L	≤ 2	ASTM D 5501-Mod
Acetaldehyde	Mg/L	≤ 2	ASTM D 5501-Mod
Methanol	Mg/L	≤ 2	ASTM D 5501-Mod
n-Propanol	Mg/L	≤ 2	ASTM D 5501-Mod
S-Butyl Alcohol	Mg/L	≤ 2	ASTM D 5501-Mod
Iso-Butyl Alcohol	Mg/L	≤ 2	ASTM D 5501-Mod
Iso-Amyl Alcohol	Mg/L	≤ 2	ASTM D 5501-Mod
Total Higher Alcohol	Mg/L	≤ 2	ASTM D 5501-Mod
Acetal	Mg/L	≤ 2	ASTM D 5501-Mod
Alkalinity, as Ammonia	% wt.	≤ 0.0003	ASTM D 1614