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## **APPLE CIDER VINEGAR (40 GRAIN)** **MATERIAL SPECIFICATIONS**

### **PRODUCT DESCRIPTION**

Apple Cider Vinegar shall be the product made by the alcoholic fermentation and subsequent acetous fermentation of the juice of apples, adjusted with water to the specified strength.

### **GENERAL REQUIREMENTS**

All U.S. deliveries shall conform in every respect to the applicable provisions of the U.S. Federal Food, Drug and Cosmetic Act as amended.

Material and workmanship shall be of good quality and the product shall be prepared in accordance with Federal Good Manufacturing Practices under strictly sanitary conditions to minimize the possibility of contamination during product manufacturing.

No clarifiers or preservatives shall be presenting the product.

Certificate of Analysis shall be furnished upon request.

### **Analytical Requirements**

Grain (% acid)	40.0-41.0
Residual alcohol (single strength)	0.5% maximum
Other chemical requirements	Iron: 2.0-PPM Max Copper: 1.0-PPM Max Heavy Metals: 1.0-PPM Max
Color (Absorbance @ 50 Grain (% acid) Bottling)	0.07-0.11 @ 520NM Wavelength

### **Physical Requirements**

Appearance	Clear, bright liquid, free from cloudiness
Flavor/Odor	Clean and characteristic (apple and acetic acid), free from foreign flavor or aroma
Extraneous matter	None: free from sediment, floating particles, vinegar mother, vinegar eels, insect fragments or other foreign material. Trace sediment allowable.

**Microbiological requirements** No Pathogens

**Ingredient Statement** Apple Cider Vinegar (diluted with water to 4% acidity)

<b>Shelf Life</b>	<b>Glass</b>	<b>Plastic</b>	<b>PET</b>
	18 mos.	24 mos	24 mos

This specification was developed with utmost care based on up-to-date information available, but should also be scrutinized by the recipient. It does not release him from checking the quality of goods delivered with proper diligence.

**PRODUCT: VINEGAR, APPLE CIDER**