


**ENTERPRISE PRODUCTS OPERATING LLC**
**MAPL - Channahon Purity Ethane Specifications**

COMPONENT	TEST METHOD	SPECIFICATION
Methane	ASTM D-2163	1.5 Liq. Vol.% max.
Ethane	ASTM D-2163	95.0 Liq. Vol.% min.
Ethylene	ASTM D-2163	1.0 Liq. Vol.% max.
Propane & Heavier	ASTM D-2163	5.0 Liq. Vol.% max
Carbon Dioxide	ASTM D-2504	1000 ppm wt. max.
Copper Corrosion Strip @ 100 °F	ASTM D-1838	No. 1 (See notes 1 & 2)
Volatile Sulfur	ASTM D-5623	30 ppm wt. max.
Hydrogen Sulfide	ASTM D-5623	2 ppm wt. max.
Carbonyl Sulfide + CS <sub>2</sub>	ASTM D-5623	2.5 ppm wt. S max.

NOTE ON TEST METHODS: Method numbers listed above, beginning with the letter "D," are American Society for Testing and Materials (ASTM), Standard Test Procedures. The most recent year revision for the procedures will be used.

Contaminants: Ethane-Propane Mix shall be commercially free from sand, dust, gums, and gum-forming substances, oil, catalyst poisons, impurities, and other objectionable substances.

Objectionable substances are those which may be injurious to the system or which may interfere with its transmission through the system. Product will not contain liquid contaminants such as glycol, inhibitors, amine, or any compound added to the product to enhance the ability to meet these specifications.

Particulate content shall be less than 20 micron in size. A partial list of potential contaminants includes Oxygen, Oxygenates, Nitrogen, Halides, Arsine/Arsenic, and Mercury.

1. Use a corrosion cylinder rated at a minimum of 1500 psig.
2. The use of corrosion masking agents is strictly prohibited.

Specification Committee Approval:

Steve Martindale  
Quality Control

Mike Smith  
Business Management

Phu Phan  
Operations

Gregory Clark  
Analytical Systems

Tim Moss  
Distribution