ETHYLENE (C_2H_4); Semiconductor Purities

A flammable, colorless gas, with a characteristic sweet odor.

Purity Specifications	Grade 4.0 99.99%	Grade 4.5 99.995%	Grade 5.0 99.999%	Grade 5.5 99.9995%
Nitrogen	< 10 ppm	< 10 ppm	< 5 ppm	< 5 ppm
Oxygen	< 2 ppm	< 2 ppm	< 1 ppm	< 1 ppm
Carbon Dioxide	< 2 ppm	< 1 ppm	< 1 ppm	< 1 ppm
Other Hydrocarbons	< 470 ppm	< 90 ppm	< 90 ppm	< 45 ppm
Moisture	< 3 ppm	< 3 ppm	< 2 ppm	< 2 ppm
Total Impurities	<100 ppm	< 50 ppm	< 10 ppm	< 5 ppm

Moisture level guaranteed only when AGT prepares the cylinders.
All concentrations are on a mol/mol basis unless otherwise stated.
This product is analyzed gas phase.

Cylinder Size	Fill Weight (lbs)
49	37.0
44	30.0
16	11.0
7	4.0

Technical Data:

Mol. Wt: 28.054
Sp. Volume: . . . . . 13.8 cu. ft/lb
Flammability Limits: . . . . . 2.7 - 36% in Air
Valve Outlet: . . . . . CGA 350
LB CGA 170

Shipping Information:

DOT Name: . . . . . Ethylene, Compressed
Hazard Class: 2.1
DOT No.: . . . . . UN 1962
DOT Label: . . . . . Flammable Gas
CAS No.: 74-85-1

ADVANCED GAS TECHNOLOGIES
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