Epichlorohydrin Rubber (ECO)

ASTM D1418 & ISO 1629 Designation: **CO, ECO**
ASTM D2000, SAE J200 Type/Class: **BG, BK, CE, CH, DH, DJ, DK**
Mil-R-3065 (Mil-Std 417) Class: **SB**

Ames Rubber Manufacturing
Ames Industrial • DWA Industrial • Avon Rubber • Armco

Advantages: Resistant to ozone, weathering and oils; good heat resistance; very low permeability to gasses; fire resistant and flame retardant.

Limitations: Electrically conductive; relatively expensive; low resilience; limited resistance to most organic chemicals can be corrosive.

Physical & Mechanical Properties	
Durometer or Hardness Range:	45-95 Shore A
Tensile Strength Range:	1,000 - 3,000 PSI
Elongation (Range%):	200% - 800%
Abrasion Resistance:	Fair to Good
Adhesion to Metal:	Good
Adhesion to Rigid Materials:	Good to Excellent
Compression Set:	Good to Excellent
Flex Cracking Resistance:	Good to Excellent
Impact Resistance:	Fair to Good
Resilience/Rebound:	Good to Very Good
Tear Resistance:	Fair to Excellent
Vibration Dampening:	Good

Thermal Properties	
General Temperature Range	-65°F to 275°F
Min. for continuous Use (Static):	-60°F
Brittle Point:	-70°F
Max. for Continuous Use (Static):	275°F

Environmental Performance	
Colorability:	Good
Flame Resistance:	Fair to Good
Gas Permeability:	Good to Excellent
Odor:	Good
Ozone Resistance:	Excellent
Oxidation Resistance:	Excellent
Radiation Resistance:	Poor to Good
Steam Resistance	Poor to Good
Sunlight Resistance:	Excellent
Weather Resistance:	Good
Water Resistance:	Good

Chemical Resistance	
Acids, Dilute:	Good
Acids, Concentrated:	Poor to Fair
Acids, Organic (Dilute):	Fair
Acids, Organic (Concentrated):	Poor
Alcohols:	Fair to Good
Aldehydes:	Poor to Fair
Alkalies, Dilute:	Poor
Alkalies, Concentrated:	Fair to Good
Amines:	Poor to Good
Animal & Vegetable Oils:	Excellent
Brake Fluids, Non-Petroleum Based:	Poor
Diester Oils:	Poor to Good
Esters, Alkyl Phosphate:	Poor
Esters, Aryl Phosphate:	Poor
Esthers:	Good
Fuel, Aliphatic Hydrocarbon:	Good to Excellent
Fuel, Aromatic Hydrocarbon:	Good to Excellent
Fuel, Extended (Oxygenated):	Fair to Good
Halogenated Solvents:	Poor
Hydrocarbon, Halogenated:	Excellent
Ketones (MEK, acetone):	Fair
Lacquer Solvents:	Fair
LP Gases & Fuel Oils:	Excellent
Mineral Oils:	Excellent
Oil Resistance:	Excellent
Petroleum Aromatic:	Good to Excellent
Petroleum Non-Aromatic:	Poor
Refrigerant Ammonia:	Poor
Refrigerant Halofluorocarbons:	R-12
Refrigerant Halofluorocarbons w/ Oil:	Good to Excellent
Silicone Oil:	Good to Excellent
Solvent Resistance:	Good to Excellent