Ultraflo Corporation

VALVE MATERIAL SELECTION GUIDE

To Be Used Only as a Guide - Not a Guarantee of Service

APPLICATION CODE: E – Excellent G – Good F – Fair U – Unsatisfactory • – Insufficient Data

	Stem & Disc Materials							Seat Materials				
	Ductile Iron	17-4 PH S.S.	316 S.S.	Monel*	Alum. Bronze	Alloy 20*	Hastelloy "C"*	Buna-Nitrile	Hypalon*	Viton*	EPDM	Teflon*
Acetaldehyde	F	U	E	E	U	E	E	U	U	F	G	E
Acetic Acid - Crude	U	E	E	G	U	E	E	U	E	U	•	E
Acetic Acid - Pure	U	E	E	U	U	E	E	G	E	•	•	E
Acetic Acid - 10%	F	E	E	G	U	E	E	G	E	•	•	E
Acetic Acid - 80%	F	E	E	G	U	E	E	G	E	•	•	E
Acetic Acid - Anhydride	U	G	E	G	U	E	E	G	E	F	•	E
Acetone	G	E	E	E	E	E	E	U	U	•	E	E
Acetylene	G	E	E	E	G	E	•	U	U	•	•	E
Acrylonitrile	G	G	E	E	E	•	•	•	•	•	•	E
Air (Dry)	E	E	E	E	E	•	•	E	E	•	E	E
Alcohol - Amyl	F	G	E	G	E	E	•	F	G	G	G	E
Alcohol - Butyl	F	G	E	E	E	E	E	F	U	•	G	E
Alcohol - Ethyl	G	•	E	G	E	E	E	G	G	G	G	E
Alcohol - Methyl	G	•	E	E	E	E	E	F	G	F	G	E
Alum - Ammonium	U	•	G	•	•	•	•	G	F	G	E	E
Alumina	U	G	G	•	G	E	E	E	G	G	E	E
Aluminum Chloride	U	U	U	E	G	E	•	G	•	E	E	E
Aluminum Fluoride	U	•	G	G	•	E	•	G	•	G	E	E
Aluminum Hydroxide	F	G	G	G	•	•	E	G	•	G	E	E
Aluminum Sulphate	U	G	G	F	G	G	E	E	E	•	E	E
Amines	U	E	E	G	•	E	E	G	•	•	G	E
Ammonia, Anhydrous	F	E	E	G	U	E	E	G	F	U	G	E
Ammonia Solutions	F	•	E	G	U	E	E	G	G	•	G	E
Ammonium Chloride 50% 180°F	U	U	G	G	U	E	G	•	E	•	E	E
Ammonium Hydroxide	F	E	E	U	U	E	E	F	F	•	E	E
Ammonium Nitrate 5% 60°F	U	E	E	U	U	E	E	E	F	•	E	E
Ammonium Phosphate	U	•	E	F	U	E	E	E	•	E	E	E
Ammonium Sulphate 90% 180°F	U	F	G	G	U	G	E	E	E	•	E	E
Amyl Acetate	F	E	E	G	E	E	E	U	F	F	•	E
Amyl Chloride	U	G	E	G	E	E	•	U	U	•	U	E
Aniline 90% 70°F	F	G	E	G	•	E	E	U	F	G	•	E
Aniline Dyes	F	G	E	E	F	E	E	U	F	G	F	E
Arsenic Acid	U	E	G	U	U	E	E	U	U	F	G	E
ASTM Oil #1	F	E	E	E	E	E	E	E	G	E	U	E
ASTM Oil #3	F	E	E	E	E	E	E	E	G	E	U	E
ASTM Ref. Fuel A	F	E	E	E	G	E	E	E	G	E	U	E
ASTM Ref. Fuel B	F	E	E	E	G	E	E	G	F	E	U	E
ASTM Ref. Fuel C	F	E	E	E	G	E	•	G	F	E	U	E
Asphalt	G	E	E	E	G	E	•	U	•	E	U	E
Barium Carbonate 60°F	U	E	•	G	G	•	•	E	•	•	E	E
Barium Chloride	F	E	•	G	•	•	E	E	•	•	E	E
Barium Hydroxide	F	E	E	G	U	E	•	E	E	•	E	E
Barium Sulphate 60°F	F	E	E	G	G	•	•	E	•	•	E	E
Barium Sulphide	F	E	E	F	U	E	E	E	U	•	E	E
Beer (Beverage)	U	E	E	E	G	E	E	F	F	•	G	E
Beet Sugar Liquors	F	E	E	E	E	E	•	E	G	•	E	E
Benzaldehyde	•	E	E	•	E	E	•	U	•	•	G	E
Benzene (Benzol) 70°F	F	E	E	G	E	E	•	U	F	G	•	E
Benzoic Acid 5% 70°F	•	G	E	G	•	E	•	F	F	•	•	E
Black Sulphate Liquor	F	G	E	•	F	E	•	E	F	•	G	E
Bleaching Powder - Wet	•	G	E	•	U	E	•	E	F	•	E	E

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Borax	U	F	E	E	U	E	E	G	E	•	E	E
Boric Acid 5% 200°F	U	F	E	G	F	E	E	E	E	•	E	E
Brine (Acid)	U	•	•	G	•	•	•	E	•	•	E	E
Brine - Chlorinated	•	•	•	G	•	•	•	•	•	•	E	E
Bromine - Gas	U	U	U	F	•	U	E	U	G	E	•	E
Bromine - Water	U	U	U	F	•	U	E	U	G	E	U	E
Butadiene	•	G	E	•	•	E	•	E	•	E	•	U
Butane - Butylene	G	E	E	E	E	E	E	G	E	•	U	E
Butyl Acetate	•	E	E	•	E	E	•	U	U	U	G	E
Butyric Acid 5% 70°F	U	G	E	•	•	E	E	U	F	•	U	E
Calcium Bisulfite	U	G	G	•	F	G	•	E	E	•	U	E
Calcium Carbonate 60°F	U	•	•	E	•	•	E	E	•	E	E	E
Calcium Chlorate 20% 160°F	•	G	E	G	•	E	E	•	E	•	•	E
Calcium Chloride	F	G	G	G	E	G	E	E	E	•	E	E
Calcium Hydroxide 50% 175°F	F	E	E	E	U	E	E	G	E	•	E	E
Calcium Hypochlorite	•	G	G	•	•	G	•	F	E	•	•	E
Calcium Sulphite 90% 60°F	F	E	E	G	E	E	•	F	•	E	E	E
Calgon	U	•	E	•	•	E	•	E	•	E	E	E
Caliche Liquor	U	•	E	•	•	E	•	G	•	•	G	E
Cane Sugar Liquids	F	E	E	•	E	E	•	E	•	•	G	E
Carbon Dioxide	F	E	E	•	E	E	•	G	E	•	•	E
Carbon Disulfide	E	•	•	•	G	•	•	U	•	E	U	E
Carbon Tetrachloride	F	G	G	G	F	E	•	E	•	E	U	E
Carbonic Acid	U	G	G	G	•	E	E	E	•	•	•	E
Castor Oil	G	G	E	E	G	E	E	G	•	•	F	E
Caustic Solutions 34% 200°F	U	G	E	F	U	E	E	F	F	E	U	E
China Wood Oil (Tung)	U	•	E	•	F	E	E	E	•	E	G	E
Chlorine Gas - Dry 70°F	U	F	G	F	F	G	E	G	G	E	•	E
Chlorobenzene 90% 60°F	U	E	E	E	E	E	•	U	U	G	•	E
Choloform 70°F	U	G	E	G	E	E	•	U	•	E	U	E
Chlorosulfonic Acid 10	U	U	U	G	G	U	E	U	U	U	•	E
Chromic Acid 5% 70°F	U	G	E	•	U	E	•	U	E	•	U	E
Citric Acid 5% 70°F	U	F	E	G	F	E	E	G	E	•	U	E
Coconut Oil (Food)	U	U	E	•	U	E	•	G	•	•	E	E
Coffee (Food)	U	U	E	•	U	E	•	U	G	G	E	G
Copper Sulphate 80% 175°F	U	G	E	U	U	E	•	E	E	•	G	E
Cottonseed Oil	G	E	E	E	E	E	E	E	E	E	•	E
Creosol	U	F	E	•	•	E	•	U	•	F	G	E
Creosote	E	E	E	E	G	E	E	F	U	E	U	E
Cresylic Acid	U	G	E	•	•	E	•	G	•	•	U	E
Crude Oil	F	G	E	E	E	E	E	E	•	E	U	E
Cyclohexane	•	E	E	•	E	E	•	U	•	E	U	E
Dextrose (Food)	U	U	E	•	•	•	•	E	•	•	F	E
Diacetone	U	•	•	•	E	E	•	F	•	U	G	E
Diamylamine	•	E	E	•	E	G	•	G	•	U	G	E
Dichloroethene	•	•	F	•	•	E	•	U	•	G	•	•
Diesel Fuels	F	E	E	E	G	E	E	G	•	E	U	•
Diethyl Amine	F	E	E	•	E	E	•	G	•	•	F	E
Dowtherms	G	E	E	•	E	•	•	U	G	E	•	E
Drilling Mud	G	•	E	E	•	E	•	E	E	•	E	E
Ethers	U	•	E	G	E	E	E	U	•	F	F	E

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Ethyl Acetate	F	G	E	E	•	E	E	U	U	U	F	E
Ethyl Chloride 5% 60°F	F	G	E	G	E	•	E	E	G	•	U	G
Ethylene Dichloride	•	•	•	•	•	E	•	U	U	F	U	E
Ethyl Glycol	G	E	E	E	E	E	E	E	E	E	U	E
Ethylene Oxide	G	G	E	•	•	•	•	U	U	F	•	E
Ferric Chloride	U	U	•	E	U	E	U	F	E	•	U	E
Ferric Nitrate (pH7) 5% 60°F	U	•	E	E	•	•	•	F	•	•	E	E
Feric Sulphate 5% 60°F	U	•	G	E	U	E	•	E	•	E	E	E
Ferrous Sulphate	U	G	E	•	U	G	•	G	•	•	G	E
Fluorine 70°F	U	U	U	G	U	E	•	G	G	•	•	E
Fluosilicic Acid	U	F	G	•	E	E	•	E	E	•	F	E
Formaldahyde 70°F	U	G	E	G	E	E	E	F	E	E	G	E
Formic Acid 5% 150°F	U	G	E	G	E	E	E	G	E	•	•	E
Freon 11	F	E	E	E	E	E	•	G	E	G	E	•
Freon 12	F	E	E	E	E	E	•	G	E	G	U	•
Freon 22	F	E	E	E	E	E	•	G	E	U	U	•
Freon 113	F	E	E	E	E	E	•	G	E	•	F	•
Freon 114	F	E	E	E	E	E	•	G	•	•	E	•
Fruit Juices (Food) 70°F	U	U	E	•	U	E	E	G	•	•	E	E
Fuel Oil	F	E	E	E	E	E	E	G	F	•	U	E
Furfural	F	E	E	G	•	E	E	U	•	U	F	E
Gallic Acid 5% 200°F	U	•	E	•	•	E	E	E	•	G	F	E
Gasoline	F	E	E	G	G	E	E	G	G	G	U	E
Gelatin (Food)	U	U	E	•	U	E	•	G	G	G	E	E
Glucose	U	F	E	•	E	E	•	E	•	E	E	E
Glycerine/Glycol 70°F	F	E	E	G	G	E	E	E	E	E	E	•
Heptane	F	G	E	•	E	E	•	G	E	E	•	E
Hexane	F	G	E	•	E	E	•	G	E	E	U	E
Hydraulic Oils	F	G	E	E	E	E	•	G	E	E	U	E
Hydrobromic Acid 200°F	U	U	U	U	U	U	E	F	•	•	•	E
Hydrochloric Acid 10% 60°F	U	U	U	F	U	U	E	F	G	E	G	E
Hydrochloric Acid 20% 60°F	U	U	U	U	U	U	E	F	G	E	•	E
Hdyrochloric Acid 35% 60°F	U	U	U	U	U	U	G	•	F	•	•	E
Hydrocyanic Acid	U	•	G	F	U	E	E	E	E	E	•	E
Hydrofluoric Acid 48%	U	F	U	F	U	F	E	U	E	E	•	E
Hydrofluoric Acid 60%	U	U	U	U	U	F	E	U	G	G	•	E
Hydrofluoric Acid 100%	U	U	U	U	U	F	E	U	U	F	•	E
Hydrofluosilicic Acid 5%	U	G	F	F	E	G	E	•	•	G	•	E
Hydrogen	F	G	E	•	F	E	•	E	E	E	E	E
Hydrogen Peroxide 90%	U	F	G	E	U	G	E	U	E	G	F	E
Hydrogen Sulfide - Dry	F	F	G	G	F	G	E	•	G	G	E	E
Hydrogen Sulfide - Wet	F	F	E	•	F	E	•	•	G	G	G	E
Iodine Solution	U	U	U	E	U	U	E	F	•	E	•	E
Iso-octane	F	E	E	E	E	E	E	E	E	E	U	E
Isopropyl Alcohol	F	E	E	E	E	E	E	G	E	E	•	E
Isopropyl Ether	F	E	E	E	E	E	E	E	G	E	U	E
Kerosene	G	E	E	E	E	E	E	E	G	E	U	E
Lacquer Solvents	F	E	E	E	E	E	E	U	U	•	•	E
Lactic Acid 5% 70°F	U	F	G	G	U	E	E	F	E	•	•	E
Lard Oil 70°F	G	•	E	•	•	E	E	G	G	•	U	E
Lemon Oil	U	F	E	E	E	E	E	G	•	•	•	E

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Linseed Oil	F	E	E	G	E	E	E	F	E	E	U	E
Lubricating Oil	E	E	E	E	E	E	E	E	G	E	U	E
Magnesium Chloride 4% 75°F	U	F	G	G	F	E	E	E	E	•	•	E
Magnesium Hydroxide	F	E	E	•	G	E	•	G	E	•	•	E
Magnesium Sulphate 5% 120°F	F	G	E	E	E	E	E	E	•	•	•	E
Mercuric Chloride 3% 60°F	U	U	F	G	U	F	E	E	•	•	E	E
Mercuric Cyanide	U	•	E	•	•	E	E	F	•	•	G	E
Mercurous Nitrate (ph7+)	U	•	•	•	•	E	E	F	•	•	•	E
Mercury	E	E	E	E	U	E	E	E	E	E	•	E
Methyl Acetate	F	G	E	•	•	E	•	U	U	•	F	E
Methyl Acetone	F	E	E	•	E	E	•	U	U	•	•	E
Methyl Cellosolve	F	E	E	E	E	E	•	U	•	F	•	E
Methyl Chloride	G	G	E	•	E	E	•	U	F	G	G	E
Methyl Ethyl Ketone	E	E	E	•	E	E	•	U	U	F	G	E
Milk (Food)	U	U	E	•	U	E	E	•	•	•	E	E
Mineral Oil	F	•	F	F	•	E	E	•	E	•	U	E
Molasses (Food)	U	•	E	•	U	E	•	•	•	•	E	E
Naptha	F	U	E	G	E	E	E	G	U	E	U	E
Napthalene	F	E	E	•	E	E	•	U	•	G	U	E
Natural Gas	G	E	E	•	E	E	•	G	•	E	•	E
Nickel Ammonium Sulphate	U	E	E	•	•	•	•	•	•	•	•	E
Nickel Chloride	U	•	F	•	•	G	E	E	•	•	•	E
Nickel Sulphate 10% 60°F	U	•	E	G	•	E	E	•	•	•	•	E
Nitric Acid 10% 70°F	U	•	F	U	U	G	G	•	E	E	•	E
Nitric Acid 30% 70°F	U	•	•	U	U	G	G	•	E	•	E	E
Nitric Acid 60% 175°F	U	•	•	U	U	G	G	•	F	E	•	E
Nitric Acid	U	U	U	U	U	G	G	U	G	E	F	E
Nitrobenzene	U	•	E	•	•	E	•	U	U	G	G	E
Oils and Fats	•	E	E	•	E	E	•	E	•	U	U	E
Oils, Fish	U	G	E	•	F	E	•	G	F	U	U	E
Oleic Acid 100°F	U	F	G	G	G	E	E	F	G	•	•	E
OLeum	U	U	F	•	•	G	G	U	U	E	U	E
Oxalic Acid	U	F	G	•	U	G	G	U	•	•	G	E
Oxygen	G	E	E	E	E	E	•	E	E	E	E	E
Ozone	U	G	E	•	•	•	•	•	E	•	•	E
Palmitic Acid	U	G	E	•	G	E	•	E	G	•	•	E
Perchlorethylene	F	G	E	•	•	E	•	E	U	E	U	E
Petroleum - Refined	G	•	•	•	G	•	•	G	E	E	U	E
Petrolum - Sour	U	G	G	G	F	G	E	F	E	G	U	E
Phenol	U	•	E	E	•	E	E	U	•	G	•	E
Phosphoric Acid 10% 70°F	U	F	G	G	U	G	E	G	E	E	•	E
Phosphoric Acid 25% 70°F	U	U	G	•	U	G	G	F	E	E	•	E
Phosphoric Acid 75% 70°F	U	U	G	•	U	•	F	U	E	E	•	E
Phosphrous Oxychloride	U	•	•	•	•	•	•	•	•	•	•	E
Picking Sol. (20% Ntric-4HF)	U	•	G	G	•	G	•	•	E	•	U	E
Picric Acid 80% 70°F	U	•	E	F	•	E	E	G	E	G	G	E
Potassium Chloride	U	•	G	•	E	E	•	E	•	F	E	E
Potassium Cyanide	F	G	E	•	U	E	•	E	•	E	E	E
Potassium Hydroxide 5% 70°F	F	G	E	E	U	E	E	E	E	E	G	E
Potassium Nitrate 6% 68°F	F	G	E	G	F	E	E	E	•	•	G	E
Potassium Phosphate	U	•	G	•	•	•	•	E	•	E	G	E

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Potassium Sulphate 7% 180°F	F	G	E	G	E	E	•	E	•	E	E	E
Potassium Sulfide	U	G	E	•	•	E	•	E	•	•	G	E
Potassium Sulfite	U	•	E	•	•	E	•	F	•	•	E	E
Propane	F	E	E	•	E	E	•	G	•	G	U	E
Resins and Rosins	U	E	E	•	E	E	E	F	F	E	•	E
SAE #10 Oil	G	•	•	•	E	•	•	E	E	•	U	E
Sea Water 70°F	U	F	G	G	G	G	E	E	E	E	E	E
Sewage	U	G	E	•	G	E	•	E	•	E	•	E
Skydrol 500	G	E	E	•	E	E	•	F	U	U	E	E
Soap Solution (Sterate) 70°F	U	F	E	G	E	E	E	E	E	E	E	E
Sodium Acetate 5% 75°F	U	F	E	G	E	E	E	G	•	U	G	E
Sodium Aluminate	U	•	E	•	•	E	•	E	•	E	G	E
Sodium Bisulfate	U	F	E	•	•	E	•	E	•	E	G	E
Sodium Carbonate 80% 60°F	U	G	E	E	G	E	E	E	E	E	G	E
Sodium Chloride 30% 180°F	U	F	E	E	E	E	E	E	E	E	E	E
Sodium Cyanide	U	•	E	•	U	E	•	E	•	E	G	E
Sodium Fluoride 5% 75°F	U	•	•	G	F	•	E	•	•	E	G	E
Sodium Hydroxide 5%	U	G	E	E	G	E	E	E	E	U	E	E
Sodium Hydroxide 20%	U	F	E	E	U	E	E	E	U	U	G	E
Sodium Hydroxide 50%	U	F	G	G	U	E	E	G	U	U	G	E
Sodium Hydroxide 70%	U	U	F	F	U	G	G	F	U	U	G	E
Sodium Hypochlorite 5% 60°F	U	•	G	E	U	G	E	F	E	E	•	E
Sodium Nitrate 30% 60°F	U	G	E	G	G	E	E	E	•	E	E	E
Sodium Perborate	U	G	E	•	•	•	•	G	•	E	E	E
Sodium Peroxide	U	G	E	•	U	•	•	E	E	E	E	E
Sodium Phosphate 5% 60°F	U	G	E	G	G	E	E	E	•	E	G	E
Sodium Silicate	U	G	E	G	G	E	E	E	•	E	G	E
Sodium Sulphate 80% 60°F	U	G	E	G	G	E	E	E	•	E	G	E
Sodium Sulfide 70% 70°F	U	G	E	•	•	E	E	F	•	E	G	E
Sodium Sulfite 5% 70°F	U	•	•	G	U	E	E	E	•	E	G	E
Steam 225°F	U	U	E	E	U	E	•	U	U	U	G	F
Steam 300°F	U	U	E	E	G	•	•	U	U	U	U	F
Stearic Acid 90% 200°F	U	G	E	F	F	E	E	E	G	E	G	E
Sulpher (Molten)	U	F	G	U	U	E	E	U	•	G	G	E
Sulpher Dioxide 60°F	U	G	E	E	F	E	E	U	E	•	E	E
Sulpher Trioxide	U	G	E	•	•	E	E	•	U	F	•	E
Sulphuric Acid 0-7% 70°F	U	F	G	F	U	E	E	U	E	E	U	E
Sulphuric Acid 7-40% 70°F	U	U	U	U	U	G	G	U	E	E	U	E
Sulphuric Acid 40-75% 70°F	U	U	U	U	U	G	G	U	G	G	U	E
Sulphuric Acid 75-95%	U	U	U	U	U	U	U	U	U	G	U	E
Sulphuric Acid 95-100%	U	U	U	U	U	U	U	U	G	G	U	E
Sulphurous Acid 80% 100°F	U	U	U	U	U	E	E	U	E	E	U	E
Tall Oil	U	G	E	•	•	E	•	•	•	•	U	E
Tannic Acid 250°F	U	F	E	•	G	E	E	•	E	•	G	E
Tar	F	E	E	E	E	E	E	F	•	E	G	E
Tartaric Acid 150°F	U	G	E	•	G	E	E	E	E	•	U	E
Toluol and Toluolene	U	E	E	•	E	E	•	•	F	G	F	E
Tributyl Phosphate	U	F	E	•	•	E	•	U	G	U	E	E
Trichoroacetic Acid	U	U	•	•	G	•	•	•	•	•	•	E
Trichloroethylene	U	U	E	•	E	E	•	U	•	G	U	E
Triethinolamine	U	U	•	G	•	•	•	E	E	U	E	E

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The total responsibility for selection of appropriate materials rests with the user and/or the engineering firm employed by the user for this purpose. Ultraflo Corporation in no way assumes responsibility for chemical resistance requirements or for satisfactory valve performance.

* Special Order Materials

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VALVE MATERIAL SELECTION GUIDE

To Be Used Only as a Guide - Not a Guarantee of Service

APPLICATION CODE: E – Excellent G – Good F – Fair U – Unsatisfactory • – Insufficient Data

	Stem & Disc Materials							Seat Materials				
	Ductile Iron	17-4 PH S.S.	316 s.s.	Monel*	Alum. Bronze	Alloy 20*	Hastelloy "C"*	Buna-Nitrile	Hypalon*	Viton*	EPDM	Teflon*
Trisodium Phosphate	U	U	•	•	•	•	•	F	•	•	G	E
Tung Oil	U	U	E	•	•	E	E	G	G	•	U	E
Turpentine	U	U	E	•	G	•	•	U	F	E	U	E
Vinegar 70°F	U	G	E	•	•	E	E	E	G	E	G	E
Water, Acid - Mine	U	G	E	U	•	E	E	F	E	E	F	E
Water - Demineralized	U	G	E	E	E	E	E	E	E	E	E	E
Water - Fresh 180°F	E	E	E	E	E	E	E	E	•	•	E	E
Water - Fresh 225°F	E	E	E	E	E	E	E	U	U	U	G	E
Water - Salt 180°F	U	U	G	E	F	E	E	E	•	•	E	E
Water - Sewage 80°F	U	G	E	E	E	E	E	E	•	E	E	E
Whiskey and Wines	U	U	E	E	G	E	E	E	G	•	E	E
White Liquor	U	G	E	•	•	E	•	G	G	•	•	E
Xylene, Xylol	F	E	E	•	E	E	G	U	•	G	U	E
Zinc Chloride	U	U	F	G	U	G	E	F	E	•	•	E
Zinc Sulphate 25% 180°F	U	G	E	G	E	E	E	E	•	•	•	E

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