

United States Gauge Company

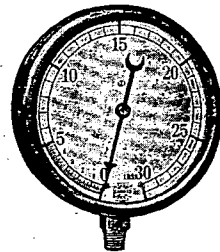


Indicating and Recording Pressure Gauges

44 BEAVER STREET · NEW YORK

FACTORY · BELLERSVILLE · PENNSYLVANIA
BRANCHES · NEW YORK · CHICAGO · PHILADELPHIA
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U. S. GAUGES—U. S. Gauges are made in all sizes from 2 to 12 in. inclusive for pressures from 1 lb up to 50,000 lb, and for vacuum. Cases may be cast-iron, cast brass, drawn steel and drawn brass for wall mounting or flush mounting. For severe service long wearing hardened steel or bushed movements may be supplied.

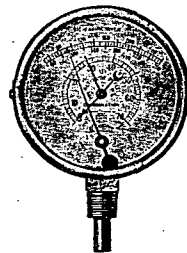


For service on Steam Heating Systems—

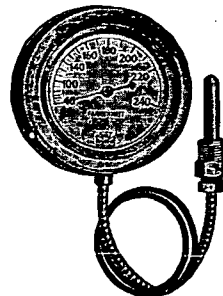
Steam Gauges . . . Compound Pressure and Vacuum Gauges . . . Retard Gauges . . . Compound Retard Gauges . . . Steam Gauges with Internal Siphons.

For Hot Water Heating Systems—

Altitude Gauges . . . Tank-in-Basement Gauges . . . Altitude and Pressure Gauges . . . Combination Altitude Gauges, and (a) Bimetal Thermometers, (b) Glass Tube Thermometers, (c) Vapor Tension Distance Type Thermometers . . . Glass Tube Hot Water Thermometers.



U. S. RECORDING GAUGES—U. S. Recording Gauges are made in 8½, 10 and 12 in. sizes for pressures from 1 lb up to 50,000 lb, and for vacuum. Cases may be cast-iron or cast brass for wall mounting or flush mounting. Pen arms are made of non-corrosive metal. Especially designed clock movements are used. Charts can be furnished for customary time periods.



U. S. DIAL THERMOMETERS—U. S. Dial Thermometers are of the vapor tension type with open scale reading in the central and upper portion of the scale. Cases may be cast-iron, cast brass, drawn steel or drawn brass for wall mounting or flush mounting. Supplied in all sizes from 2 to 12 in. inclusive, for temperature ranges from -40 F to 800 F. Furnished with rigid connection bulb or with flexible capillary tubing up to 100 ft. long.

Alfol Insulation Company

Incorporated

155 East 44th St., New York, N. Y.

Agents in Principal Cities

INSULATION for

Houses
Buildings
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Boiler Jackets
Radiators
Air-Conditioners
Dehumidifiers
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Hot Water Tanks

At temperatures up to 1200 F.



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Locomotives
Ships
Ovens
Ranges
Tanks
Still
Towers
Pipes

TECHNICAL DESCRIPTION OF ALFOL

ALFOL consists of one or more sheets of pure aluminum foil installed to build up heat insulation by providing barriers against the passage of heat. Sheets of ALFOL block air currents and seal against moisture. The metallic surfaces reflect heat radiation and eliminate 95 per cent of this form of heat flow. ALFOL has the dual advantage of being light in weight and low in heat absorption, and conduction through the separated layers of foil is negligible.

ALFOL is also furnished combined with other materials such as aircell asbestos for specialized applications.

PERMANENCE

The outstanding quality of ALFOL is its permanence. It resists fire and water, it is not affected by vibration, shrinking, settling, bulging, warping. ALFOL is a lasting material.

Every aluminum surface oxidizes as soon as it is formed. The oxide is transparent and forms a protective film. On the pure aluminum of which ALFOL consists, this film is continuous and forms a coating which protects against atmospheric conditions. The reflectivity of ALFOL with this oxide film is 95 per cent. After years of service, ALFOL tests at 95 per cent reflectivity.

EFFECTIVE AS VAPOR BARRIER

ALFOL is a recognized vapor barrier. Being pure metal it cannot absorb moisture and moisture cannot penetrate it. ALFOL is a dry insulator.

SERVICE EXPERIENCE

The first large applications of ALFOL were made in this country in 1931 and in Europe four years earlier. Eight years here and twelve years abroad have proven ALFOL's reliability and permanence. Millions of square feet of ALFOL aluminum foil in ships, refrigerators, refrigerator cars, trucks, locomotives, pipes, ovens, houses, etc., prove as efficient today as when installed. The high insulating efficiency of ALFOL is constant.

Data on Heat Savings Effected by Alfol

Construction	Heat Transmission Btu/Hour/Sq Ft/F			Heat Transfer Stopped . . . %	
	Not Insulated	1 layer ALFOL	2 layer ALFOL	1 layer ALFOL	2 layer ALFOL
Wood Stud Wall—4 in. studs	0.25	0.11	0.09	56%	64%
8 in. Brick Wall—Furred	.30	.12	.09	60	70
Open Attic Floor	.62	.13	.10	79	84
Wood Shingle Roof (no lath and plaster)	.46	.13	.09	72	81
Concrete Roof—6 in. slab—suspended ceiling	.35	.13	.10	63	72
Composition Shingle Roof (no lath and plaster)	.56	.15	.11	73	81

Alfol Actively and Instantly Reflects Radiant Heat