

# BIOSENSOR

## Emissivity Values for Common Objects

Object or Material	Emissivity		Object or Material	Emissivity
Aluminum, commercial sheet	0.09		Nickel, electroplated	0.03
Aluminum, polished	0.039 to 0.057		Porcelain, glazed	0.92
Aluminum, anodized	0.77		Paper	0.93
Brass, dull plate	0.22		Paint	0.8-0.96
Brass, polished	0.03		Plaster	0.92
Brick, red rough	0.90		Plastics	0.91
Cast Iron, turned and heated	0.6 to 0.7		Sand	0.76
Chromium, polished	0.08 to 0.36		Sawdust	0.75
Concrete	0.85		Silver, polished	0.02 to 0.03
Cotton, cloth	0.77		Steel, mild	0.2 to 0.32
Copper, polished	0.08 to 0.036		Steel, oxidized	0.79
Glass	0.92		Steel, polished	0.07
Gold, pure and polished	0.018 to 0.035		Steel, galvanized old	0.88
Granite	0.45		Steel, galvanized new	0.23
Gypsum	0.85		Stainless steel, weathered	0.85
Ice	0.97		Stainless steel, polished	0.075
Iron, polished	0.14 to 0.38		Tile	0.97
Iron, plate rusted red	0.61		Water	0.95
Lampblack paint	0.96		Wood, oak	0.91
Marble, white	0.95		Wrought iron	0.94