

► **EMISSIVITY TABLE**

Material	Temp (/)	Emissivity
Gold (pure highly polished)	227/440	0.02
Aluminum foil	27/81	0.04
Aluminum disc	27/81	0.18
Aluminum household (flat)	23/73	0.01
Aluminum (polished plate 98.3% pure)	227/440	0.04
	577/1070	0.06
Aluminum (rough plate)	26/78	0.06
Aluminum (oxidized @ 599)	199/390	0.11
	599/1110	0.19
Aluminum surfaced roofing	38/100	0.22
Tin (bright tinned iron sheet)	25/77	0.04
Nickel wire	187/368	0.1
Lead (pure 99.9% - unoxidized)	127/260	0.06
Copper	199/390	0.18
	599/1110	0.19
Steel	199/390	0.52
	599/1110	0.57
Zinc galvanized sheet iron (bright)	28/82	0.23
Brass (highly polished):	247/476	0.03
Brass (hard rolled - polished w/lines)	21/70	0.04
Iron galvanized (bright)	-	0.13
Iron plate (completely rusted)	20/68	0.69
Rolled sheet steel	21/71	0.66
Oxidized iron	100/212	0.74
Wrought iron	21/70	0.94
Molten iron	1299-1399/3270-2550	0.29
Copper (polished)	21-117/70-242	0.02

Copper (scraped shiny not mirrored)	22/72	0.07
Copper (plate heavily oxidized)	25/77	0.78
Enamel (white fused on iron)	19/66	0.9
Formica	27/81	0.94
Frozen soil	-	0.93
Brick (red - rough)	21/70	0.93
Brick (silica - unglazed rough)	1000/1832	0.8
Carbon (T - carbon 0.9% ash)	127/260	0.81
Concrete	-	0.94
Glass (smooth)	22/72	0.94
Granite (polished)	21/70	0.85
Ice	0/32	0.97
Marble (light gray polished)	22/72	0.93
Asbestos board	23/74	0.96
Asbestos paper	38/100	0.93
	371/700	0.95
Asphalt (paving)	4/39	0.97
Paper (black tar)	-	0.93
Paper (white)	-	0.95
Plaster (white)	-	0.91
Plywood	19/66	0.96
Water	-	0.95
Wood (freshly planned)	-	0.9

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