

Annex 12.2. Emissivity of different materials.

Adapted from ePlus Innovation, 2000.

| Metals | | Non-Metals | |
|---------------------------------|-------------|------------------------------|-----------|
| Aluminum alloy-oxidized | 0,4 | Asbestos Board | 0,96 |
| Aluminum - highly polished | 0,04 - 0,06 | Asphalt tar, pitch | 0,9-0,98 |
| Aluminum- oxidized | 0,11 - 0,31 | Brick - red and rough | 0,93 |
| Aluminum - Anodized sheet | 0,55 | Brick - fireclay | 0,75 |
| Brass - oxidized | 0,6 | Carbon - filament | 0,53 |
| Brass - polished | 0,03 | Carbon - lampblack | 0,96 |
| Chromium - polished | 0,1-0,38 | Cement | 0,54 |
| Copper - polished | 0,02-0,05 | Ceramic | 0,9-0,94 |
| Gold - pure, highly polished | 0,02 | Concrete | 0,92-0,97 |
| Iron - polished | 0,21 | Frost crystals | 0,98 |
| Iron - oxidized | 0,94 | Glass | 0,9-0,95 |
| Rusted Iron plate | 0,65 | Human skin | 0,98 |
| Iron - rough steel plate | 0,94-0,97 | Ice | 0,96-0,98 |
| Lead - gray and oxidized | 0,28 | Marble - polished light gray | 0,9 |
| Mercury | 0,09-0,12 | Paper | 0,94 |
| Nickel - polished | 0,12 | Plastic | 0,84-0,94 |
| Nicker - oxidized | 0,37-0,85 | Porcelain - glazed | 0,92 |
| Platinum - pure polished plate | 0,05-0,1 | P.V.C. | 0,91-0,93 |
| Platinum - wire | 0,06-0,16 | Quartz - opaque | 0,75 |
| Silver - pure and polished | 0,02-0,03 | Rubber | 0,95-0,97 |
| Stainless steel - polished | 0,16 | Sand | 0,9 |
| Stainless steel - oxidized | 0,74-0,87 | Soil | 0,92-0,95 |
| Tungsten - filament | 0,32-0,39 | Wallpaper | 0,85-0,9 |
| Zinc - polished commercial pure | 0,05 | Water | 0,95-0,96 |
| Zinc - galvanized sheet | 0,23 | Wood - planed oak | 0,82-0,89 |