ASNT Level III Study Guide: Infrared and Thermal Testing Method

Text Corrections

The following text corrections apply to the first printing of *ASNT Level III Study Guide: Infrared and Thermal Testing Method.* Subsequent printings of the document will incorporate the corrections into the published text.

Page 21:
Table 2.1 should be replaced with the following table.

Table 2.1: Thermal properties of common materials (in order of increasing thermal diffusivity)

Material	Thermal Diffusivity α (cm^2/s)	Thermal Conductivity K (cal/s-cm-°C)	Specific Heat C (cal/g-°C)	Density ρ (g/cm^3)
Polyisoprene	7.709×10^{-4}	3.202×10^{-4}	0.455	0.913
Pine (parallel to grain)	2.06×10^{-3}	6.21×10^{-4}	0.669	0.45
Water	1.45×10^{-3}	1.443×10^{-3}	0.998	0.997
Glass	3.43×10^{-3}	1.86×10^{-3}	0.201	2.7
Zirconia	2.19×10^{-3}	1.55×10^{-3}	0.139	5.1
Ni superalloy	0.0260	0.0227	0.105	8.3
Air	0.221	6.262×10^{-5}	0.240	1.18×10^{-3}
2024-T4 Al	0.46	0.29	0.23	2.77
Aluminum	0.967	0.561	0.215	2.699
Silicon	1.08	0.406	0.162	2.33
Copper	1.17	0.958	0.092	8.936
Gold	1.26	0.76	0.0312	19.32
Diamond	3.74	1.58	0.12	3.516

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