

ERRATUM

Erratum: "The anisotropic powder metallurgy of n -type $\text{Bi}_2\text{Te}_{2.85}\text{Se}_{0.15}$ thermoelectric material" [*J. Mater. Res.* 5, 1052 (1990)]

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The tables in the paper, "The anisotropic powder metallurgy of n -type $\text{Bi}_2\text{Te}_{2.85}\text{Se}_{0.15}$ thermoelectric material," *J. Mater. Res.*, Vol. 5, No. 5, May 1990, pp. 1052–1057, have incorrect titles. The tables with correct titles are as follows:

TABLE I. The effect of the particle size on the orientation factor.

| Particle size (μm) | Density (g/cm^3) | Orientation factor f | Resistivity ρ ($\Omega \cdot \text{cm}$) | Seebeck coefficient α ($\mu\text{V}/\text{K}$) | α^2/ρ ($10^{-3} \text{W}/\text{mK}$) |
|---------------------------------|------------------------------------|------------------------|---|---|--|
| 250–150 | 7.65 | 0.488 | 1.36 | 187 | 25.7 |
| 150–90 | 7.69 | 0.652 | 1.16 | 209 | 37.7 |
| 90–75 | 7.70 | 0.40 | 0.95 | 171 | 30.8 |
| 75–50 | 7.72 | 0.376 | 0.94 | 163 | 28.3 |

$t_p = 60 \text{ min}$, $t_m = 500 \text{ }^\circ\text{C}$, $P = 300 \text{ Kg}/\text{cm}^2$.

TABLE II. The effect of the hot-pressed temperature on the orientation factor.

| Hot-pressing temp. ($^\circ\text{C}$) | Density (g/cm^3) | Orientation factor f | Resistivity ρ ($\Omega \cdot \text{cm}$) | Seebeck coefficient α ($\mu\text{V}/\text{K}$) | α^2/ρ ($10^{-3} \text{W}/\text{mK}$) |
|---|------------------------------------|------------------------|---|---|--|
| 300 | 6.2 | 0.502 | 14.2 | 214 | 3.23 |
| 400 | 7.12 | 0.696 | 2.45 | 198 | 16.0 |
| 500 | 7.62 | 0.756 | 1.09 | 195 | 34.9 |

$t_p = 60 \text{ min}$, $P = 300 \text{ Kg}/\text{cm}^2$, particle size 250–150 μm :150–90 μm :90–75 $\mu\text{m} = 1:2:1$.

TABLE III. The effect of the hot-pressed pressure on the orientation factor.

| Hot-pressing pressure (kg/cm^2) | Density (g/cm^3) | Orientation factor f | Resistivity ρ ($\Omega \cdot \text{cm}$) | Seebeck coefficient α ($\mu\text{V}/\text{K}$) | α^2/ρ ($10^{-3} \text{W}/\text{mK}$) |
|---|------------------------------------|------------------------|---|---|--|
| Stress-free | 5.83 | 0.124 | 5.40 | 237 | 10.4 |
| 100 | 6.30 | 0.256 | 2.28 | 205 | 18.4 |
| 300 | 7.62 | 0.756 | 1.09 | 195 | 34.9 |
| 500 | 7.71 | 0.760 | 1.01 | 197 | 38.4 |

$t_p = 60 \text{ min}$, $t_m = 500 \text{ }^\circ\text{C}$, particle size 250–150 μm :150–90 μm :90–75 $\mu\text{m} = 1:2:1$.