# テクニカルデータシート

# Lignostone® M II-2-E3-SQ

Laminated Densified Wood

## 製品の特徴

- 中程度の密度で非常に高い機械的強度
- 積層圧縮木材
  (IEC61061規格C4R)
- 赤ブナを使用

## 製品の用途例

- 変圧器
- 電気
- 電気絶縁
- 変圧器用 Lignostone Transformerwood
- 油入変圧器

| | 試験法 | 単位 | 値 |
|---|---|---|---|
| **機械的物性** | | | |
| 密度 | IEC 61061 | g / $cm^3$ | 1.25 |
| 曲げ強度 ⊥ | IEC 61061 | MPa | 130 |
| たわみ荷重弾性係数 | IEC 61061 | MPa | 11 |
| 圧縮強度⊥ | ISO 604 | MPa | 230 |
| 圧縮強度II | ISO 604 | MPa | 90 |
| せん断強度 II | IEC 61061 | MPa | 15 |
| **熱的物性** | | | |
| 熱伝導率 | DIN 52612 | W/m K | 0.22 |
| 連続使用温度 | DIN 7707 | °C | 105 |
| 乾燥時の上限温度 | DIN 7707 | °C | 130 |
| **機械的特性** | | | |
| 吸油率 | IEC 61061 | % | 7 |
| 含水率 | IEC 61061 | % | 5 |
| **電気的特性** | | | |
| 油中耐電圧90°C⊥ | IEC 61061 | kV / mm | 15 |
| 油中耐電圧90°CII | IEC 61061 | kV/25mm | 70 |
| 比誘電率 (50Hz) | IEC 60250 | $\varepsilon_r$ | 4.1 |
| 誘電損率 (50 Hz) | IEC 60250 | tan δ | 0.01 |
| 体積固有抵抗 | IEC 60093 | Ω x cm | $10^{12}$ |

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⊥ = perpendicular to the lamination

II = parallel to the lamination

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