

## Technical Data Sheet

# Lignostone<sup>®</sup> M II-2-E3-HQ

Laminated Densified Wood

### Typical characteristics

- High red beech veneer quality; crosswise stacked
- High mechanical strength at medium density
- Laminated densified wood C4R according to the standard IEC 61061

### Typical industries

- Transformer
- Electrical Industry
- Electrical Insulating Components
- Lignostone Transformerwood - for transformers
- Oil-filled transformers

	Test method	Unit	Guideline value
<b>Mechanical properties</b>			
Density	IEC 61061	g / cm <sup>3</sup>	1.25
Flexural strength <sup>⊥</sup>	IEC 61061	MPa	130
Modulus of elasticity in flexion <sup>⊥</sup>	IEC 61061	MPa	11 000
Compressive strength <sup>⊥</sup>	ISO 604	MPa	230
Compressive strength II	ISO 604	MPa	90
Shear strength II	IEC 61061	MPa	11
<b>Thermal properties</b>			
Thermal conductivity	DIN 52612	W/m K	0.22
Operating temperature continuous	DIN 7707	°C	100
Temperature limit when drying	DIN 7707	°C	130
<b>Physical properties</b>			
Oil absorption	IEC 61061	%	7
Moisture content	IEC 61061	%	5
<b>Dielectrical properties</b>			
Electric strength 90°C under oil <sup>⊥</sup>	IEC 61061	kV / mm	17
Electric strength 90°C under oil II	IEC 61061	kV/25mm	80
Relative permittivity (50 Hz)	IEC 60250	ε <sub>r</sub>	3.7
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0.01
Specific volume resistance	IEC 60093	Ω x cm	10 <sup>12</sup>

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⊥ = perpendicular to the lamination || = parallel to the lamination

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Print: 19/05/2026 • Release: 19/09/2025 • Version: 4.0  
PIM-ID: 710050 • PIM-Code: 1103-46-21.13.9-5.11.7.6-13  
Company-IDs: 20000-1

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