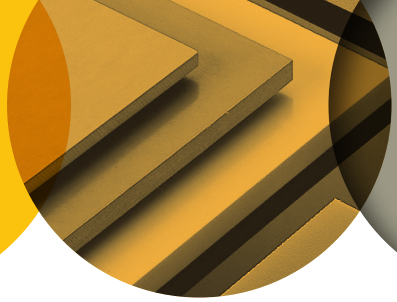
Röchling
Grade H II/2/30

LIGNOSTONE® CRYOGENIC GRADE

Impregnated Densified Wood



H II/2/30
Lignostone®
Cryogenic
Grade

GENERAL DESCRIPTION

Specially developed for LPG and LNG applications, Lignostone® Cryogenic grade is manufactured from beech veneers, impregnated under vacuum with thermosetting synthetic resin and densified under heat and pressure. The particular properties of Lignostone® make it an ideal material for load bearing cryogenic supports.

FEATURES & BENEFITS

- Low thermal conductivity
- High mechanical strength
- Resistance to abrasion and wear
- Resistance to physical and chemical decay
- Temperature range between -196°C to +90°C
- Low moisture absorption

APPLICATIONS

- Anchor supports
- Base supports
- Trunnion supports
- Cable cleats
- Line stops
- Cold shoes
- Cold insulation blocks

GENERAL INFORMATION	
Material	Densified laminated wood impregnated with thermoset phenolic resins
Colour	Brown / Wood
Specification	KP 20227

TECHNICAL DATA	TEST METHOD	UNITS	VALUE
General			
Specific gravity	IEC 61061	g/cm³	<1.37
Water absorption	ISO 62	%	<0.5
Mechanical Properties			
Bending strength RT (perpendicular)	ISO 178	N/mm²	140
Bending strength -196°C (perpendicular)	ISO 178	N/mm²	110 - 160
Modulus of elasticity in flexion (perp.)	ISO 178	N/mm²	15,000
Modulus of elasticity in flexion -196°C (perp)	ISO 178	N/mm²	16,000
Compressive strength RT (perpendicular)	ISO 604	N/mm²	230
Compressive strength RT (parallel)	ISO 604	N/mm²	170

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VERSATILITY VIA COLLABORATION

Röchling
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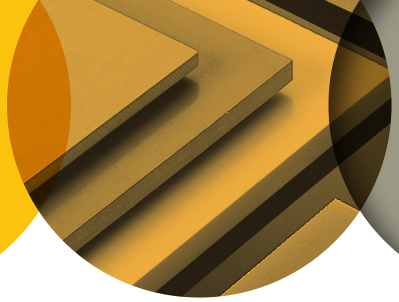

H II/2/30
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TECHNICAL DATA	TEST METHOD	UNITS	VALUE
Compressive strength -196°C (parallel)	ISO 604	N/mm²	360
Shearing strength RT (perpendicular)	IEC 60893	N/mm²	>70
Shearing strength RT (parallel)	IEC 60893	N/mm²	25
Impact strength RT (perpendicular)	ISO 179	kJ/m²	25
Impact strength RT (parallel)	ISO 179	kJ/m²	20
Thermal Properties			
Thermal conductivity	DIN 52612	W/mK	~0.30
Thermal conductivity -100°C	ISO 8302	W/mK	~0.25
Coefficient of linear expansion (perpendicular)	METTLER TMA	10^-6 x K^-1	~160
Coefficient of linear expansion (parallel)	METTLER TMA	10^-6 x K^-1	~15

MATERIAL SPECIFICATIONS
Standard Width x Length (mm)
1000 x 2000
997 x 1000
Standard Nominal Thickness (mm)
50 to 70

SIZING & AVAILABILITY

The above table shows the most commonly requested products in this range. Should you require something outside of these parameters, please contact your local sales representative or our customer service team.

MACHINING & FABRICATION

Insulect's manufacturing capabilities form a key part of the trusted service we offer our customers. Our two modern, well equipped facilities – in Brisbane and Melbourne – work with a wide range of electrical, thermal and mechanical materials – including plastics, composites and cellulose-based products.

We offer short run, specialty or volume based machining and fabrication for almost any application and can produce cut-to-order sheets or finished components. Coupled with our highly-trained and experienced team, we are able to deliver on the most complex of customer requirements.

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