

PAQUIÓ

SPECIES IDENTIFICATION

SCIENTIFIC NAME	<i>Hymenaea courbaril</i> L.
FAMILY	LEGUMINOSAE (CAESALPINIACEAE)*
COMMERCIAL NAME	Jatobá, Courbaril
OTHER NAMES	Jatobá, Jataí* (Brazil), Algarrobo (Colombia, Venezuela), Copal (Ecuador), Azúcar-Huayo* (Peru)
DISTRIBUTION AREA	Is found in humid tropical and subtropical forests.* Departments of Beni, La Paz and Santa Cruz
REGION AND FREQUENCY	Very frequent in Bajo Paraguá, Guarayos Amazonian foothills and Amazonia

TREE DESCRIPTION

TREETOP	Wide and extended.
TRUNK	Conical and uniform. It reaches commercial heights up to 45 m*
BARK	Grayish color; slightly fissured; thin.

GENERAL CHARACTERISTICS

SAPWOOD COLOR	Pale Brown	HEARTHWOOD COLOR	Redish-Brown*
ODOR	Indistinct	TASTE	Indistinct
LUSTER	Medium	GRAIN	Straight to interlocked
STRIPED	Dark and Intense	TEXTURE	Medium-sized*

ANATOMIC DESCRIPTION

ANNUAL GROWTH RINGS

Visibility	Visible at sight	Average Number	29 rings in a radius of 10 cm.
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PORES

Visibility	Visible at sight	Porosity	Diffuse
Type	Solitaries, radial multiples	Shape	Round to slightly oval

PARENCHYMA

Visibility	Visible at sight	Quantity	Abundant
Type	Paratraqueal with centric vessels aliform		

RADIUS

Visibility	Visible at sight	Contrast	Absent
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Stratification	Absent
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PHYSICAL PROPERTIES

MOISTURE CONTENT (GREEN LUMBER)	53 %
BASIC DENSITY	0,77 g/cm ³
DENSITY (12% MOISTURE CONTENT)	0,95 g/cm ³
RADIAL SHRINKAGE	4,2 %
TANGENTIAL SHRINKAGE	7,4 %
VOLUMETRIC SHRINKAGE	11,2 %
RATE T/R	1,8

MECHANICAL RESISTANCE

MODULUS OF ELASTICITY	163 1000 Kg/cm ²
MODULUS OF RUPTURE	1515 Kg/cm ²
COMPRESSION PARALELL TO GRAIN	886 Kg/cm ²
QUARTEREDSAWED	186 Kg/cm ²
LATERAL HARDNESS	1351 Kg
IMPACT BENDING	2,05 Kg-m

TECHNNICAL CONDITIONS FOR PROCESSING

MACHINING	Good planing with an 15° cut angle*. Good moulding, sanding, boring and turning*. Medium blunting effect*. Good finishing.*
PRESERVATION	Permeable solamente la albura
NATURAL DURABILITY	Durable, resistant to termites and fungi, specially when not in contact with soil
DRYING	Air drying is rather slow with risks of cracking*. Kiln drying T3-C2 and T3 – C1 (USA)*

END USES

Heavy construction*	Garden Furniture*
Decorative veneer	Flooring
Naval construction	Turnery*
Stairways*	Door frames*
Truck beds*	Tool handles*

Source 1: MDSP, FAO PAF-BOL, IBAMA, LPF “[Información Técnica para el Procesamiento Industrial de 134 especies maderables de Bolivia](#)”. Serie Técnica XI. 2002. (Translated by Fernando Aguilar . Marketing - CADEFOR)

(*) Source 2. CFB, PROMABOSQUE, BOLFOR, SCC, FAO PAF-BOL. [Bolivian Woods](#). 1999.