COPAIBA		
CAESALPINIACEAE		
Copaifera duckei		
Copaifera guianensis		
Copaifera langsdorffii Copaifera multijuga		
Other species are commercialized under the name COPAIBA.		
	WOOD DESCRIPTION	N
from 45 to 80 cm	Colour:	Red brown
from 2 to 3 cm	Sapwood:	Clearly demarcated
no	Texture:	Medium
Low (must be treated)	Grain:	Straight or interlocked
	Interlocked grain:	Slight
Heartwood varies from pink to red brown with copper-coloured veins. Resin exudation. Grain sometimes wayy		
	COPAIBA CAESALPINIACEAE Copaifera duckei Copaifera guianensis Copaifera langsdorffii Copaifera multijuga Copaifera reticulata Other species are commercialized from 45 to 80 cm from 2 to 3 cm no Low (must be treated) Heartwood varies from pink to reasonetimes wavy.	COPAIBA CAESALPINIACEAE Copaifera duckei Copaifera guianensis Copaifera langsdorffii Copaifera multijuga Copaifera reticulata Other species are commercialized under the name COPAI Other species are commercialized under the name COPAI from 45 to 80 cm from 2 to 3 cm Sapwood: no Texture: Low (must be treated) Grain: Heartwood varies from pink to red brown with copper-co sometimes wavy.

# PHYSICAL PROPERTIES

#### MECHANICAL PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	mean	standard deviation		mean	standard
Density *:	0.50 g/cm	3 0.03			deviation
Monnin hardness*:	2.6	1.4	Crushing strength *:	38 MPa	2
Coef of volumetric shrinkage:	0.40 %	0.03	Static handing strongth *:	95 MD.	4
Total tangential shrinkage:	5.9 %	0.5	Static bending strength *.	os Mira	4
Total radial shrinkage:	3.1 %	0.2	Modulus of elasticity *:	12450 MPa	1116
Fibre saturation point:	26 %				
Stability:	Moderately s	table to stable	(*: at 12 % moisture content	; 1 MPa = 1 N/mn	n2)

# NATURAL DURABILITY AND TREATABILITY

Fungi and termite resistance refers to end-uses under temperate climate.

Except for special comments on sapwood, natural durability is based on mature heartwood.

Sapwood must always be considered as non-durable against wood degrading agents.

Fungi: Dry wood borers:	Class 5 - not durable Durable: sapwood demarcated (risk limited to sapwood)	* ensured by natural durability (according
Termites:	Class S - Susceptible	EN standards).
Treatability:	3 - poorly permeable	
Biological hazard class*:	1 - not in ground contact, under cover (no dampness)	

#### **COUNTRIES - LOCAL NAMES** Countries Local names Belize COPAIBA Bolivia COPAIBO Brazil COPAIBA Brazil PAU-D'OLEO Colombia CANIME French Guiana PANCHIMOUTI Guyana BALSAM Guyana MARAM CANIVA Panama Panama CUPAY Peru COPAIBA Surinam HOEPELHOUT Surinam **KOEPAJOEWA** Venezuela ACEITE Venezuela CABIMO

## COPAIBA

## REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: In case of temporary humidification risk: In case of permanent humidification risk: Does not require any preservative treatment Use not recommended Use not recommended

DRYING	Possible drying schedule				
Drying rate: Risk of distortion:	Rapid No risk or very slight risk	M.C. (%)	Tempera dry-bulb	ature (°C) wet-bulb	Air humidity (%)
Risk of casehardening: Risk of checking: Risk of collapse:	Yes No risk or very slight risk No	Green 30 20 15	60 68 74 80	56 58 60 61	81 61 51 41

This shedule is given for information only and is applicable to thickness < 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm , the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm, a 10 % increase should be considered.

# SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good
Note:	Fuzzy surface. Keep sharp tools.

#### ASSEMBLING

Nailing / Screwing:	Poor	
Gluing:	Correct	
Note:	Variable nails holding according to the species.	

## END-USES

Main known end-uses; they must to be implemented according to the code of practice.

Important remark: some end-uses are mentionned for information (traditional, regional or ancient end-uses).

Interior joinery
Interior panelling
Flooring
Moulding
Turned goods
Boxes and crates
Veneer for interior of plywood
Veneer for back or face of plywood
Light carpentry
Current furniture or furniture components
Sliced veneer
Seats
Fiber or particle boards
Blockboard
Formwork