

# Moabi

## Atibt

Moabi; NEN-EN 13556: moabi (GB), moabi (F), Moabi (D), Code BLTX

## Other names

Adjap, ayap (Kameroen, Guinee), dimpampi (Congo), adza (Gabon), moabi (Angola, Congo), njabi (Nigeria, Kameroen)

## Botanic name

*Baillonella toxisperma* Pierre (= *Mimusops djave*).

## Family

Sapotaceae.

## Growth area

Tropical West Africa



<b>Tree Description</b>	Height 30-50(-60) m. The 25-30 m long straight cylindrical branchless trunk is 0.6-1.5(-3) m in diameter.
<b>Supply</b>	Roundwood (veneer) and veneer.
<b>Wood Description</b>	The heartwood is pink to dark reddish-brown and stands out clearly against the 40-60 mm sapwood, which is colored light pink to gray-brown. Moabi has an even texture, often without pronounced markings. Due to the rather variable grain pattern, it can show more or less regular stripes, flames or a fine moiré pattern.
<b>Wood Recognition</b>	Reddish-brown in color, homogeneous in texture, oriented radially on head plane vessels and parenchyma in a network with the rays. The similar wood species mukulungu and makoré are easily recognized due to higher weight (mukulungu) and darker color (makoré).
<b>Grain</b>	Straight, sometimes wavy or tousled or combinations of these.
<b>Texture</b>	Moderately coarse to fine.
<b>Voluminous mass</b>	(770-)820(-960) kg/m <sup>3</sup> at 12% moisture content, fresh 1000-1100 kg/m <sup>3</sup> (moisture content approximately 45%).
<b>Shrinkage</b>	Radial 2.7% and tangential 4.2%.
<b>Drying</b>	Very slow, with little loss of quality. A calibration line is available for making electrical wood moisture measurements. An application wood moisture content of 14% is recommended for siding.
<b>Hardness</b>	Longitudinal plane not known.



<b>Machinability</b>	Moabi is machinable fairly well and with hand tools, depending on the silica content, the cutting tool stumps off. It also peels or cuts well into veneers. Wood dust released during machining can irritate nose, eyes and throat so good dust extraction is important.
<b>Nailing &amp; Screwing</b>	Pre-drilling required.
<b>Adhesives</b>	Good.
<b>Bend</b>	Good.
<b>Surface finish</b>	Good, with a solvent-based system and with a water-based system.
<b>Impregnability</b>	Heartwood 3-4, sapwood not known (according to NEN-EN 350).
<b>Applications</b>	Commonly used for exterior and interior joinery, frames, windows and doors. Also for bodywork, stair treads, paneling, furniture, parquet, and turnery and sculpture. Also used for veneer manufacture for decorative work and decorative cover veneers for sheet material (mainly plywood).
<b>Quality requirements</b>	Moabi is mentioned in SKH-Publication 99-05, which means that with moabi window frames can be manufactured with KOMO® product certificate.
<b>Strength class</b>	Not known.

## Sustainability

### Relative resistance to mold

Heartwood class 1 (NEN-EN 350: practical experience and field research).

### Relative resistance to animal organisms

Heartwood: drywood borers D, termites D (S) and marine borers D (NEN-EN 350).