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## Kusia /Badi/Bilinga

Nauclea diderrichii

syn. Sarcocephalus diderrichii

Opepe

**Family:** Rubiaceae

**Other Common Names:** Kusia (Ghana), Badi (Ivory Coast), Bilinga (Gabon), Akondoc (Cameroon), N'Gulu-maza (Zaire), Kilingi (Uganda).

**Distribution:** Widely distributed from Sierra Leone to the Congo region and eastward to Uganda; often found in pure stands.

**The Tree:** Up to about 160 ft in height, with straight, cylindrical boles clear to 80 to 100 ft, trunk diameters 3 to 6 ft.

### The Wood:

**General Characteristics:** Heartwood orange or golden yellow, darkening on exposure; sapwood whitish or pale yellow, clearly defined. Texture rather coarse; grain usually interlocked or irregular; lustrous; without characteristic odor or taste. An alkaloid in the wood may be toxic to woodworkers.

**Weight:** Basic specific gravity (ovendry weight/green volume) 0.63; air-dry density 47 pcf.

Janka side hardness 1,520 lb for green and 1,630 lb for dry material. Amsler toughness 220 in.-lb at 12% moisture content (2-cm specimen).

**Drying and Shrinkage:** Quartersawn stock dries rather rapidly with little checking or warp; flatsawn lumber may develop considerable degrade. Thin stickers and end-coating is suggested. Kiln schedule T6-D2 is suggested for 4/4 stock and T3-D1 for 8/4. Shrinkage green to ovendry: radial 4.5%; tangential 8.4%; volumetric 12.6%. Movement in service is rated as small.

**Working Properties:** Timber works moderately well with hand and machine tools, requires a slow feed in sawing, a 10-degree cutting angle is suggested for planing prevent tearing; good gluing; takes a satisfactory finish. Poor steam-bending characteristics.

**Durability:** Heartwood is rated as very durable but is moderately resistant to termites. Sapwood liable to powder-post beetle attack. Heartwood resistant to marine borers.

**Preservation:** Sapwood permeable; heartwood moderately resistant.

**Uses:** Dock and marine work, boatbuilding (except bent work), railway crossties, general construction, flooring, furniture and cabinet parts.

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*Technology Transfer Fact Sheet*



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