**THE PROPERTIES AND USES OF INDONESIAN**

**COMMERCIAL WOOD**

Source:

Kartasujana, I.& Martawijaya, A. 1973. Commercial woods of Indonesia, their propertiesand uses Pengumuman no.3 thn 1973. Lembaga Penelitian Hasil Hutan, Bogor.

Distribution key:

The geographical distribution of the species is indicated by the following key:

1. Sumatera
2. Java
3. Borneo
4. Sulawesi
5. Moluccas
6. Lesser Sunda Islands
7. West Irian/Papua

Uses key:

The key to indicate the possible uses of the wood is as follows:

1. Construction
2. Plywood
3. Furniture
4. Flooring
5. Panelling
6. Sleepers
7. Door and window frames
8. Packing material
9. Sporting goods and musical instruments
10. Power and telephone poles
11. Shipbuilding
12. Carvings and handicrafts
13. Fancy veneer
14. Matches
15. Pulp
16. Drafting instruments
17. Pencils
18. Charcoal
19. Medicine
20. Moulding

**Table 1. Properties and Uses of Indonesian Wood Species**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Wood Species | Specific Gravity | Class | Distribution | Uses |
| Min | Max | Mean | Durability | Strength |
| 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48. | AgathisBayurBakauBalauBangkiraiBedaruBelangeranBenuangBintangurBonginBungurCendanaCengalDahuDurianEbonyGiamGerunggangGisokJabonJatiJelutungJeungjingKapurKemiriKempasKenariKeruingKukuKulimLaraLasiMahoniMatoaMelurMentibuMeranti merahMeranti putihMerawanMerbauMersawaNyatohPerupukPetanangPilangPulaiRaminRengas | 0.360.300.820.650.600.840.730.160.370.930.620.770.510.370.420.900.830.360.730.290.590.220.240.630.230.680.480.51-0.730.980.770.560.500.380.410.290.290.420.520.490.390.400.620.710.190.460.59 | 0.640.781.031.221.161.360.980.481.071.201.010.940.890.750.911.141.150.710.970.560.820.560.490.940.441.290.681.01-1.081.230.880.760.990.770.571.010.961.031.040.851.070.690.910.890.900.840.84 | 0.490.520.940.980.911.040.860.330.781.020.800.840.700.580.641.050.990.470.830.420.700.400.330.810.310.950.550.790.870.941.150.810.640.770.520.530.550.540.700.800.460.670.560.750.790.460.630.69 | IVIVIIIII-(I-III)III-(I-III)VIIIIIIII – IIIIIII – IIIIVIV – VIIIVII – IIIVI – (III)VIV/VII – IIIVIII – IVIVIIIIII – (III)IIIIIIIII – IVIVIV/VIII – IVIII – IVII – IIII – IIIVII – IIIIV/VIIIIIIIII – VIVII | IIIII – IIII – III – III – III(I)-IIIV – VII – IIIII – IIII – III – IIIIII – IVII – IIIIIIII – IVII – IIII – IVIIIII – VIV – VII – IIV – (V)I –IIIII(I)-IIIIIIIII – IIIII(I – III)II – IVIIIII – IVII – IVII – IIII – (II)II – IIIII – (I – II)II – IIIIIIIIV – VII – IIIII | 1,2,3,4,5,71,2,3,4,5,61,2,3,4,5,6,71,3,431,31,31,3,4,51,2,3,4,5,61,31,2,3,4,5,62,61,21,2,3,4,5,71,2,3,4,54,51,31,3,4,51,31,2,3,4,5,62,4,61,31,51,31,2,4,51,31,2,3,4,5,61,2,31,3,4,5,71,34,54,521,2,4,5,6,71,2,3,4,5,6,71,31,3,4,51,3,4,51,31,2,3,4,5,6,71,31,2,3,4,5,71,3,412,61,2,3,4,5,6,71,31,2,3 | 1,2,3,7,8,9,14,15,171,2,3,7,11,121,151,4,6,10,111,2,3,4,6,111,3,6,9,11,121,3,4,6,7,112,8,14,151,2,3,4,5,6,111,3,4,131,3,4,5,6,7,1112,191,2,3,4,5,6,7,113,4,5,131,2,83,12,131,4,6,10,111,2,81,2,3,4,5,7,112,8,14,151,3,4,5,6,10,11,12,132,8,12,16,17,201,2,8,14,151,2,3,4,5,6,7,112,8,14,151,2,4,61,2,4,5,71,2,4,5,6,113,4,5,11,131,2,4,6,10,111,4,6,10,111,3,4,5,12,131,2,3,4,5,7,11,121,3,4,7,111,2,3,4,5,7,9,16,171,2,7,81,2,3,4,5,8,151,2,3,4,5,8,151,2,3,4,5,7,9,111,4,5,6,10,111,2,4,5,111,2,4,5,7,9,111,2,3,8,12,14,151,4,5,6,111,2,3,4,52,8,12,14,15,16,201,2,3,4,5,7,203,4,5,6,12,13 |
| No. | Wood Species | Specific Gravity | Class | Distribution | Uses |
| Min | Max | Mean | Durability | Strength |
| 49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98. | ResakSalimuliSanintenSonokelingSonkembangSungkaiTembesuTeralingTerentangTusamUlinWeruAmpupuBalsaBenuang lakiBerumbungBugis, k.CemaraCempagaCempakaGadogGelamGiaGifasaJangkangJoharKapuk hutanKedembaKemenyanKenangaKeranjiKesambiKetapangKolakaKupangLedaMahangMalas, k.MedangMembacangMendarahanMenjalinMensira gunungMerambungMerpayangNyirihPasangPatin, k.PelawanPerepat darat | 0.490.440.630.730.390.520.720.520.320.400.880.600.680.150.270.740.411.040.570.410.550.730.770.570.410.680.120.450.470.200.840.940.410.730.540.390.300.950.360.490.360.580.490.270.510.700.580.821.000.67 | 0.990.750.821.080.940.730.930.990.520.751.190.951.020.280.510.941.021.180.900.611.000.851.060.930.870.960.470.520.630.441.041.100.851.090.780.810.551.150.850.740.741.040.680.520.770.741.211.021.190.85 | 0.700.640.760.900.650.630.810.750.400.551.040.770.89-0.390.850.80-0.71-0.75-0.910.740.630.840.300.480.570.330.981.01-0.96-0.57-1.04----0.610.380.65--0.92-0.76 | IIII/IIIIIIII(I – II)IIIIII – IVIVIVIIIIII – IIVIV – VIIIII – IVII – IIIII – IIIIIIII – IIIIII – IIII – IIIIV – VI – IIVIVIV/VVIIIIIII – VIIIII – IVIV(V – II)IV – VII – IIIIII – VII – VVVVVVII – IIIII – IVII – IIIII | IIII – IIIIIIIII (I – II)II – IIIIIIIIII – IVIIIIII – III – IVIV – VII – III – IIII – IIIIIII – IVII – (III-I)III – IIII – IIIIII – IIII – IIV/VIIIIII – IIIV – VI – IIIII – IIIIII – IIIIII(II – IV)II – IVIII – VII – IIIII – IVI – IIIII – IIIIVII – IIIIII – IIII – IIIII | 1,3,5,72,5,61,221,2,4,5,61,2,31,2,31,2,41,31,2,4,61,31,2,65,622,3,4,5,6,71,33,4,5,71,2,4,5,6,71,2,3,4,5,61,2,3,4,5,71,2,4,5,6,71,2,3,4,5,6,73,4,5,74,5,71,3,4,5,71,21,2,4,5,6,71,31,21,2,4,5,71,2,32,4,5,61,2,3,4,5,6,71,2,3,4,5,6,71,2,3,4,54,51,2,31,31,2,3,4,5,6,71,2,3,4,5,6,71,2,31,2,31,2,4,5,6,71,2,3,4,5,6,71,31,2,3,4,5,6,71,2,3,4,5,6,711,31,3 | 1,2,4,6,7,113,4,9,121,4,5,73,4,5,9,12,131,3,4,5,12,131,3,4,5,12,131,4,5,6,10,111,2,3,4,5,7,92,8,14,151,2,8,14,15,16,171,4,6,10,111,3,4,5,131,4,5,6,10,119,121,2,5,8,111,3,4,5,7,9,11,12,201,3,4,5,6,7,11,201,4,5,6,10,11,181,2,3,4,5,7,9,10,111,2,3,4,5,7,9,12,13,16,17,201,4,5,111,4,5,6,10,11,181,4,5,6,10,111,3,4,5,6,7,9,11,12,18,202,5,7,8,12,201,3,4,5,12,13,182,8,14,15,201,2,3,4,5,7,201,2,5,8,12,14,17,202,8,12,14,15,201,2,4,5,6,7,111,4,5,6,11,181,2,3,4,5,7,8,11,14,201,4,5,6,111,2,3,4,5,7,11,13,201,2,5,7,8,10,11,201,2,5,7,8,14,15,201,4,5,6,11,181,2,3,4,5,7,8,11,12,202,5,8,12,14,202,5,7,8,201,2,51,2,5,7,202,8,14,151,2,3,5,7,8,11,14,201,2,3,4,5,6,7,11,13,18,201,2,3,4,5,6,11,13,181,2,3,4,5,6,7,11,121,4,6,10,11,181,3,4,5,11 |
| No. | Wood Species | Specific Gravity | Class | Distribution | Uses |
| Min | Max | Mean | Durability | Strength |
| 99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120. | Perepat lautPetalingPimpingPinang, k.PunakPuspaPutatRasamalaSampangSawokecikSendok-sendokSimpurSindurSurianSurian bawangTanjungTempinisTepisTerapTrembesiTualangWalikukun | 0.620.720.350.470.550.620.800.610.390.970.300.600.590.380.490.920.920.410.21-0.570.90 | 1.001.090.640.870.900.710.890.900.591.060.610.890.850.500.701.121.200.820.64-1.121.08 | 0.780.91-0.660.76--0.81-1.030.45---0.601.001.01-0.440.610.830.98 | II – IIII – IIIII – VIII – IVIII – IVIIIII – IIIII – (III)VIVIII – VII – VIII – VIII – IVI/IIIIV – VIII – VIVIII – IVII | II – II – III – IVII – IIIIIIII – IIIIIII – IVIIII – III – IIIII – IIIIII – IVII – IIIIIII – IVIII – VIIIII(I – II)I | 1,2,3,4,5,6,71,31,2,3,4,5,6,71,31,31,2,31,2,3,4,5,6,71,21,2,31,2,4,5,61,3,5,71,2,3,41,3,4,51,2,3,4,5,6,71,3,5,71,2,4,5,61,41,31,2,3,4,5,6,71,2,4,5,61,3,42,6 | 1,4,5,7,111,4,5,6,9,10,111,2,5,7,8,11,14,201,2,3,4,5,7,11,201,2,3,4,5,7,11,201,2,4,5,10,11,181,3,4,5,6,7,11,181,4,5,7,10,112,5,7,8,12,14,15,203,4,5,9,12,13,202,5,8,12,14,15,201,2,3,4,5,11,181,2,3,4,5,7,111,2,3,5,7,8,11,12,17,201,2,3,4,5,7,11,201,2,3,4,5,11,121,4,5,6,7,9,111,2,3,5,7,14,201,2,5,8,111,2,3,4,5,7,11,12,131,2,3,4,5,7,111,4,5,6,9,10,11,18 |