

# Elcometer 118/2 Surface Moisture Meter – Species Correction Table



The Elcometer 118/2 Surface Moisture Meter is a hand-held instrument which instantly and accurately measures moisture content in wood, wood by-products and building materials such as roofing, insulation, plaster and brick.

The electrical resistance of wood varies from species to species and with wood density. This can influence meter readings for the same moisture content and can also affect readings taken on samples of similar species from different origins therefore, a species adjustment table is given below.

Elcometer 118/2 Surface Moisture meter

Meter Reading (% H <sub>2</sub> O)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<b>Species</b>	<b>Corrected Moisture Content (% H<sub>2</sub>O)</b>																		
<b>Blackbutt, WA</b>	8	9	10	11	12	12	13	14	15	16	17	18	19	20	21	22	23	24	25
<b>Blackwood</b>	8	9	9	10	11	12	12	13	14	15	16	16	17	18	19	20	20	21	22
<b>Bloodwood, red</b>	9	10	10	11	12	13	14	15	15	16	17	18	19	19	20	21	22	23	23
<b>Bollywood</b>	7	7	8	9	10	11	12	12	13	14	15	16	16	17	18	19	20	21	22
<b>Box, brush</b>	6	7	7	8	8	9	9	10	10	11	11	12	13	13	14	14	15	15	16
<b>Box, grey</b>	9	10	11	12	12	13	14	14	15	16	17	17	18	19	20	20	21	22	23
<b>Box, grey, coast</b>	8	9	10	11	11	12	13	14	14	15	16	17	18	18	19	20	21	22	22
<b>Box, kanuka</b>	8	8	9	10	11	12	12	13	14	15	16	16	17	18	19	20	20	21	22
<b>Brownbarrel</b>	6	7	8	9	10	11	12	12	13	14	15	16	17	18	18	19	20	21	22
<b>Buchanania</b>	5	6	7	8	9	10	10	11	12	13	14	14	15	16	17	18	19	19	20
<b>Candlenut</b>	-	5	8	10	12	14	16	18	21	23	25	27	29	31	34	36	38	40	42
<b>Carabeen, yellow</b>	7	8	9	9	10	11	12	12	13	14	14	15	16	16	17	18	18	19	20
<b>Cedar, red</b>	8	9	10	11	12	13	14	16	17	18	19	20	21	22	23	25	26	27	27
<b>Cedar, red, western</b>	6	7	9	10	11	12	13	13	14	15	17	18	19	20	21	22	23	24	25
<b>Cedar, South American</b>	-	9	10	11	12	13	13	14	15	16	17	17	18	19	20	21	22	22	23
<b>Cherry</b>	7	8	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	25
<b>Coachwood</b>	5	6	7	8	9	10	11	12	13	14	14	15	16	17	18	19	20	21	22
<b>Dakua salusalu</b>	8	9	10	11	11	12	13	14	15	16	17	18	19	19	20	21	22	23	24
<b>Douglas Fir</b>	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<b>Elm</b>	5	6	7	7	8	9	10	12	13	13	14	15	15	16	17	18	19	20	20
<b>Erima</b>	7	8	8	9	10	11	12	12	13	14	15	15	16	17	18	19	19	20	21
<b>Fir, Alpine</b>	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
<b>Fir, Amabilis</b>	-	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
<b>Fire, red</b>	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
<b>Fir, white</b>	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	25	26
<b>Gum, blue, southern</b>	-	9	10	11	12	13	14	15	15	16	17	18	18	19	20	21	22	23	24

Meter Reading (% H <sub>2</sub> O)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Species	Corrected Moisture Content (% H <sub>2</sub> O)																		
Gum, blue, Tasmanian	7	8	9	10	11	12	12	13	14	15	16	17	17	18	19	20	21	22	22
Gum, grey	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Gum, grey, mountain	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
Gum, lemon-scented	6	6	7	8	9	10	10	11	12	13	13	14	15	16	17	17	18	19	20
Gum, Maiden's	9	10	11	11	12	13	14	15	16	16	17	18	19	20	20	21	22	23	24
Gum, Manna	6	7	7	8	9	10	11	12	13	14	14	15	16	17	18	19	20	21	21
Gum, Mountain	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Gum, American, red	9	10	11	12	12	13	14	15	16	17	18	18	19	20	21	22	23	24	24
Gum, red, river	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Gum, rose	8	9	10	11	12	13	14	14	15	16	17	18	18	19	20	21	22	23	24
Gum, shining	7	8	9	10	11	11	12	13	14	15	16	17	18	19	20	20	21	22	23
Gum, yellow	9	9	10	11	12	12	13	14	15	15	16	17	18	18	19	20	21	21	22
Hemlock, western	7	8	9	10	11	12	13	15	16	17	18	19	20	21	22	23	24	26	27
Hickory	-	-	7	9	11	13	14	16	17	18	20	21	22	24	-	-	-	-	-
Iroko	-	7	7	8	9	10	11	12	13	14	15	15	16	17	18	19	19	20	21
Ironbark, red	10	11	12	12	13	14	15	16	16	17	18	19	20	21	22	22	23	24	24
Ironbark, red, broad-leaved	10	11	12	12	13	14	15	16	16	17	18	19	20	21	22	22	23	24	25
Ironbark, red, narrow-leaved	7	8	9	10	11	12	13	14	14	15	16	17	18	19	20	21	22	23	24
Jarrah	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Jelutong	8	8	9	10	11	12	12	13	14	15	16	16	17	18	19	20	21	21	22
Kamarere (PNG source)	7	8	9	10	10	11	2	13	14	15	16	17	18	19	19	20	21	22	23
Kamarere (Fiji source)	6	7	8	8	9	10	11	11	12	13	13	14	15	15	16	17	17	18	19
Kapur	-	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Karri	7	7	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21	22
Kauri, Qld	9	10	11	12	13	14	15	16	16	17	18	19	20	21	22	23	24	24	25
Kauri, NZ	8	9	10	10	11	12	12	13	13	14	14	15	16	16	17	17	18	18	19
Kauri, Vanikoro	10	11	12	13	13	14	14	15	15	15	16	16	17	17	18	18	18	19	19
Kempas	9	10	11	11	12	13	14	14	15	16	16	17	18	19	19	20	21	21	22
Laran	7	8	8	9	10	11	11	12	13	14	14	15	16	17	17	18	18	19	19
Larch, European	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Lodgepole Pine	6	7	8	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Lumbayau	8	8	9	10	11	12	12	13	14	15	15	16	17	18	19	19	20	21	22
Mahogany, African	-	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Mahogany, American	-	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mahogany, Brazilian	-	-	-	-	10	10	11	12	13	14	15	15	16	17	18	19	20	21	22
Mahogany, brush	8	8	9	10	10	11	11	12	12	13	14	14	15	15	16	16	17	18	18
Mahogany, miva	9	10	11	12	12	13	14	15	15	16	17	18	18	19	20	20	21	22	23
Mahogany, red	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	25	26
Mahogany, rose	8	9	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19	20	20
Mahogany, southern	7	8	9	10	11	12	12	13	14	15	16	17	18	19	20	20	21	22	23
Mahogany, Honduras	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	19	20	21	22
Mahogany, white	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Makoré	-	9	10	11	12	13	14	15	15	16	17	18	18	19	20	21	22	23	24
Malas	6	7	8	9	9	10	11	12	12	13	14	15	15	16	17	18	19	19	20
Maple, Canadian	6	7	8	9	10	11	12	13	14	15	16	17	18	18	20	21	22	23	24
Maple, Qld	9	10	10	11	12	13	14	15	16	17	18	18	19	20	21	22	23	24	24

Meter Reading (% H <sub>2</sub> O)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Species	Corrected Moisture Content (% H <sub>2</sub> O)																		
Maple, rose	7	8	8	9	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19
Maple, sugar	6	7	7	8	10	12	13	14	15	16	17	18	19	20	21	22	23	24	-
Mararie	9	10	11	11	12	13	14	14	15	16	17	18	18	19	20	21	21	22	23
Marri	7	7	8	9	9	10	11	11	12	13	13	14	15	15	16	17	17	18	19
Matai	8	9	9	10	11	12	12	13	14	15	16	16	17	18	18	19	20	21	22
Meranti	6	7	8	9	10	11	12	13	14	13	16	17	18	19	20	21	22	23	24
Messmate	9	10	11	12	12	13	14	15	16	16	17	18	18	19	20	21	22	22	23
Nutmeg (Fiji source)	7	7	8	9	10	11	11	12	13	14	14	15	16	17	18	18	19	20	21
Oak, American red	-	7	8	9	11	12	13	14	15	16	17	18	18	20	21	22	23	21	25
Oak, European	7	7	8	9	10	11	12	13	14	15	16	17	18	19	21	22	23	24	25
Oak, New Guinea	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Oak, silky, northern	7	8	8	9	10	11	12	13	14	15	16	17	17	18	19	20	21	22	23
Oak, silky, red	7	8	9	9	10	11	11	12	13	13	14	15	16	16	17	18	18	19	20
Oak, silky, southern	7	7	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Oak, tulip, blush	8	7	11	12	12	13	14	15	16	16	17	18	19	20	21	22	23	24	25
Oak, tulip, brown	10	10	11	12	12	13	13	14	14	15	16	16	17	18	18	19	9	20	20
Oak, tulip, red	10	11	12	13	14	15	16	17	18	18	19	20	21	22	23	24	25	25	26
Oak, white	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	19	20	21	22
Obeche	-	7	8	9	10	10	11	12	13	14	15	15	16	16	17	18	18	19	20
Padauk, African	-	7	7	8	9	10	11	12	13	14	15	15	16	17	18	19	19	20	21
Peppermint, broad-leaved	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Peppermint, narrow-leaved	9	10	11	11	12	13	14	14	15	16	17	18	18	19	20	21	22	22	23
Persimmon	-	7	8	9	10	10	11	12	13	14	15	15	16	16	17	18	18	19	20
Pine, black	6	7	8	9	10	11	12	12	13	14	15	16	16	17	18	19	19	20	21
Pine, bunya	9	10	11	12	12	13	14	14	15	16	16	17	18	18	19	20	21	21	22
Pine, Corsican	-	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	26	27
Pine, cypress, white	8	9	10	11	11	12	13	14	15	17	17	18	19	20	21	22	22	23	24
Pine, hoop	9	10	11	11	12	13	14	15	16	17	17	18	19	20	21	22	22	23	24
Pine, Huon	9	10	10	12	12	13	13	14	15	15	16	7	18	18	19	20	20	21	22
Pine, King William	9	9	9	11	12	12	13	14	14	15	16	16	17	18	18	19	20	20	21
Pine, klinki	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Pine, longleaf	-	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	26	27
Pine, lodgerpole	6	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Pine, maritime	9	10	11	12	12	13	14	15	15	16	17	18	18	19	20	21	21	22	23
Pine, white, NZ	-	-	-	-	11	12	12	13	14	15	16	16	17	18	19	19	20	21	22
Pine, Parana	6	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20	21	22	23
Pine, ponderosa	-	7	9	10	11	13	14	15	16	17	18	19	20	21	22	22	23	24	25
Pine, radiata	9	10	11	11	12	13	14	15	16	17	18	19	20	21	22	24	25	26	27
Pine, scots/shortleaf	6	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Pine, slash	7	8	9	10	11	12	13	14	15	16	17	17	18	19	20	21	22	23	24
Pine, sugar	7	8	9	10	11	12	13	14	15	16	17	18	20	21	22	23	24	25	26
Pine, white, western	-	-	8	9	10	11	11	12	13	14	15	16	17	17	18	19	20	21	22
Poplar	6	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Quandong, silver	7	7	8	9	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19

Meter Reading (% H <sub>2</sub> O)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Species	Corrected Moisture Content (% H <sub>2</sub> O)																		
Raintree	6	6	7	7	8	8	9	9	10	10	11	11	12	-	-	-	-	-	-
Redwood	8	9	9	10	11	12	13	14	15	16	16	17	18	19	20	20	21	22	23
Redwood, European	6	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Rosarosa	8	8	9	10	10	11	12	13	13	14	15	15	16	17	18	18	19	-	-
Sapele	-	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	26	27
Sassafras	8	8	9	10	10	11	12	13	13	14	15	16	16	17	18	18	19	20	21
Sassafras, southern	9	9	10	11	11	12	13	13	14	15	15	16	17	17	18	19	19	20	21
Satinash, grey	7	8	9	9	10	11	12	13	14	15	16	16	17	18	19	20	21	22	23
Satinash, New Guinea	6	7	8	8	9	10	11	11	12	13	13	14	15	16	16	17	18	19	19
Satinash, rose	6	7	7	8	8	9	10	10	11	12	12	13	13	14	15	16	16	-	-
Satinay	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Satinheart, green	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	-	-
Sepetir	7	8	9	10	12	13	14	15	16	17	18	20	21	22	23	24	25	26	27
Sheoak, river	8	8	9	10	10	11	11	12	12	13	14	14	15	16	16	17	17	18	-
Sheoak, rose	9	9	10	11	11	12	13	13	14	14	15	15	16	16	17	18	18	19	19
Sheoak, WA	9	9	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	20	20
Silkwood, bolly	9	9	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18
Silkwood, red	5	6	7	7	8	9	10	10	11	12	12	13	14	14	15	16	17	17	18
Silkwood, silver	9	9	10	11	12	12	13	14	15	15	16	17	18	18	19	20	20	21	22
Spruce, Sitka	-	7	8	9	11	11	12	13	15	16	17	18	19	20	21	22	23	25	26
Spruce, western white	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	21	23	24	25
Stringybark, brown	8	9	10	11	11	12	13	14	15	16	17	18	19	19	20	21	22	23	24
Stringybark, Darwin	7	8	8	9	10	11	12	13	14	15	15	16	17	18	19	20	21	22	22
Stringybark, yellow	10	11	12	13	14	14	15	16	17	18	18	19	20	21	21	22	23	24	24
Sycamore	-	7	7	8	9	10	11	12	13	14	15	15	16	17	18	19	19	20	21
Sycamore, satin	8	9	9	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	20
Sycamore, silver	9	9	10	10	11	12	12	13	13	14	14	15	16	16	17	17	18	19	19
Tallowwood	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Tawa	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
Teak	-	7	7	8	9	10	11	12	13	14	14	15	15	16	16	17	18	19	20
Tingle, red	7	9	10	11	12	13	15	16	17	18	19	21	22	23	24	25	27	28	29
Tingle, yellow	7	9	10	11	12	13	14	15	17	18	19	20	21	22	23	25	26	27	28
Totara	8	8	9	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19	19
Touriga, red	10	11	11	12	13	14	14	15	16	17	17	18	19	20	20	21	22	23	23
Tuart	9	9	10	11	12	12	13	14	15	15	16	17	17	18	19	20	20	21	22
Turpentine	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
Vitex, New Guinea	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21	22
Walnut, African	-	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Walnut, blush	9	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	19	20	21
Walnut, European	-	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	26	27
Walnut, New Guinea	6	7	8	9	10	11	12	13	14	15	16	17	17	18	19	20	-	-	-
Walnut, Qld	7	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	25	27
Walnut, yellow	6	7	8	8	9	10	10	11	12	12	13	14	14	15	16	17	17	18	19
Wandoo	9	10	11	12	13	14	15	16	16	17	18	19	20	21	22	23	24	25	25
Wattle, hickory	8	8	9	10	11	11	12	13	13	14	14	15	16	16	17	18	18	19	20
Wattle, silver	8	9	10	10	11	12	13	13	14	15	16	16	17	18	19	20	20	21	22
Western Hemlock	6	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Western Red Spruce	6	7	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Wollybutt	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21	22	23	24

## Related products



Elcometer 7400

The hand closes naturally around the ergonomic form of the housing so that the pins on the end of the instrument can be pressed into the material to be measured. The thin pins make it easy to measure the moisture content of sawn timber, chipboard and fibreboard materials up to a maximum thickness of 25mm as well as normal gypsum or mixed plaster.



Elcometer 7400 Compact A

The measuring principle of the COMPACT "A" is based on the dielectric constant or high frequency method. The meter is simply placed on the material to be tested, the moisture content can be read off immediately. No need to drive pins into the wood.



Elcometer 7400 Compact B

Electronic structural moisture indicator using a patented technique based on the dielectric constant/ high frequency method. The indicator is equipped with a digital LCD readout and a universally applicable ball sensor for non-destructive location of moisture concentration in all kinds of building materials as well as for assessment of moisture distribution in walls, floors and ceilings.



Elcometer 7420

This handy and easy to use instrument does not use pins and does not damage the substrate under test. The gauge is placed onto the material to be evaluated and quickly indicates the degree of moisture in concrete, fibreglass or wood down to a depth of 3cm (1.2").

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