

## 6. Product types

| Product type | Paper type                                  | Density [kg/m <sup>3</sup> ] |
|--------------|---|------------------------------|
| Reference    | ! Only used for testing the moisture meter! |                              |
| 20 Paper     | Brochure paper                              | 1,300 kg/m <sup>3</sup>      |
| 19 Paper     | Brochure offset paper                       | 1,200 kg/m <sup>3</sup>      |
| 18 Paper     | Brochure offset paper                       | 1,150 kg/m <sup>3</sup>      |
| 17 Paper     | Brochure offset paper                       | 1,100 kg/m <sup>3</sup>      |
| 16 Paper     | Brochure offset paper                       | 1,050 kg/m <sup>3</sup>      |
| 15 Paper     | Brochure offset paper                       | 1,000 kg/m <sup>3</sup>      |
| 14 Paper     | Brochure offset paper                       | 950 kg/m <sup>3</sup>        |
| 13 Paper     | Copying paper                               | 900 kg/m <sup>3</sup>        |
| 12 Paper     | Copying paper                               | 850 kg/m <sup>3</sup>        |
| 11 Paper     | Copying paper                               | 800 kg/m <sup>3</sup>        |
| 10 Paper     | Copying paper, liner                        | 750 kg/m <sup>3</sup>        |
| 9 Paper      | Kraft liner, test liner                     | 700 kg/m <sup>3</sup>        |
| 8 Paper      | Corrugating medium, liner                   | 650 kg/m <sup>3</sup>        |
| 7 Paper      | Newsprint                                   | 600 kg/m <sup>3</sup>        |
| 6 Paper      | Low density cardboard                       | 550 kg/m <sup>3</sup>        |
| 5 Paper      | Low density cardboard                       | 500 kg/m <sup>3</sup>        |
| 4 Paper      | Tissue, filter paper                        | 450 kg/m <sup>3</sup>        |
| 3 Paper      | Tissue, filter paper                        | 400 kg/m <sup>3</sup>        |
| 2 Paper      | Tissue- filter paper                        | 350 kg/m <sup>3</sup>        |
| 1 Paper      | Tissue, filter paper                        | 300 kg/m <sup>3</sup>        |

### 6.1 Selecting the product type

Due to the wide range of different types of papers in use, there are no default product type categories. The humimeter PMP's readings are based on a paper stack or roll densities, which is why density is the decisive factor for the different product types.

The product type overview contains suggestions for different paper types and their associated densities [kg/m<sup>3</sup>].

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$$\text{Density} \left[ \frac{\text{kg}}{\text{m}^3} \right] = \frac{\text{Grammage} \left[ \frac{\text{g}}{\text{m}^2} \right]}{\text{Thickness paper sheet} [\text{mm}]}$$

$$\text{Density} \left[ \frac{\text{kg}}{\text{m}^3} \right] = \frac{\text{Weight paper roll} [\text{kg}]}{\text{Volume paper roll} [\text{m}^3]}$$

$$\text{Density} \left[ \frac{\text{kg}}{\text{m}^3} \right] = \frac{\text{Weight paper pile} [\text{kg}]}{\text{Volume paper pile} [\text{m}^3]}$$

If you wish to obtain very precise moisture content readings, please take a one-off comparative measurement with your online moisture content analyser or the standardised oven-drying method (ISO 287). To do so, proceed as follows:

1. Gauge your paper (roll or stack) density in relation to values for the different product types shown above and take a number of moisture readings using the product type most likely to deliver realistic values.
2. Next, record the actual moisture content reading obtained through your online moisture analysis or perform a reference moisture content analysis in accordance with EN ISO 287.
3. Compare the readings recorded for the different product types with those of the actual moisture content established using the reference measurement. From now on, always use the product type that most closely matches the reference measurement.
  - » Note: You can change the product type name to a name of your choice (e.g. to the name of the paper). For more information on doing so, please contact your dealer.