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Example: Let's assume that a raw material such as kaolin has a loss on ignition of approx. 12-13% (e.g., bound crystal water). This means that only approx. 87.5g (remaining oxides) remain from 100g of raw kaolin. On the slide rule, this corresponds to  $W1 = 1.1429$ . The scales give  $A1 = 14.29\%$  and  $S1 = 12.50\%$ . Digitalfire explains: "100 grams of generic kaolin ... sources only 87.5 grams of  $Al_2O_3$  and  $SiO_2$ . To get 100 grams of  $SiO_2$  and  $Al_2O_3$  we would need... 114.3 grams of raw kaolin powder." The A1/S1 scales therefore allow you to see at a glance how much more raw material you need to use (or how much mass is lost) – a calculation that would otherwise have to be done manually using percentage formulas.