

NML Mass Certificate

Guidance Note (F1)

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CERTIFICATE OF CALIBRATION	
ISSUED BY NATIONAL METROLOGY LABORATORY	
CLIENT:	
Client name	Certificate No.: M03000
Address	File No.: 00717L
	Job No.: 126893
	Order No.: 22000
Attention: Client contact	Date Recd: 10 July, 2003
Description:	Set of OIML Class F1 Weights 2 Weights from 20kg to 20kg
Set Number:	49
Calibration Standards:	(1) Set of OIML Class E2 Standard Masses Serial No.: ST1/810218
Procedure No.:	M-6/Issue1/Rev.0
Method:	These weights have been calibrated by comparison with weights of a higher accuracy OIML Class, the results are listed in the column headed "Measured value" in the enclosed table. The measured value is the conventional mass, as defined in the International Organisation for Legal Metrology, International Recommendation No. 33 resulting from weighings in air, i.e. the mass of a hypothetical weight of density 8000kg/m ³ , which at 20°C and in air of density 1.2kg/m ³ , would balance the weight being calibrated.
Calibration Date:	14 July 2003
Date of Issue:	17 July 2003
Calibration By:	Approved By:
Bernard Arkins	Paul Hetherington
Client work - Terms and Conditions - See overleaf	

Unique Certificate Number

Description of weights calibrated, including the weight class according to OIML

NML Reference Standards used in the calibration

Calibration Date

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Column 1

This column contains any relevant I.D. numbers inscribed on the weight

Column 2

Nominal Value of the Weight

Column 4

NMLs expanded uncertainty associated with the measured value

Column 5

The tolerance associated with the weight, according to the OIML Class

I.D. No	Nominal Value g	Measured Value	Measurement Uncertainty ± mg	OIML F1 Class Tolerance ± mg
		g	20000.641	20
49	20000	20000.664	20	100
50	20000			

Column 3

This is the actual measured value of the weight. This value is computed by comparison with the NML reference weight of similar nominal value.

Subtracting the measured value from the nominal value gives the measured difference between the reference weight and the weight under test.

If this measured difference, added to the measured uncertainty is greater than the OIML tolerance then the weight under test fails to comply with the tolerance appropriate to the OIML Class.