

10 items *8719*

Table 25 The certified composition of the 1:1 MOX powder

Quantity	Certified Result	Uncertainty (2S)
U/Pu ratio	1.0801	0.0017
Pu concentration	41.464 wt %	0.055 wt %
U concentration	44.784 wt %	0.034 wt %
²³⁷ Np/Pu	0.00057	0.00004
²⁴¹ Am/Pu	0.02530	0.00019
Total metal impurities (excluding Np, Am)	<0.09 wt %	
²³⁸ Pu/ ²³⁹ Pu	0.001557	0.000008
²⁴⁰ Pu/ ²³⁹ Pu	0.28698	0.00018
²⁴¹ Pu/ ²³⁹ Pu	0.017742	0.000060
²⁴² Pu/ ²³⁹ Pu	0.009524	0.000053
²⁴⁴ Pu/ ²³⁹ Pu	0.000004	0.000005
²³⁴ U/ ²³⁸ U	0.000423	0.000014
²³⁵ U/ ²³⁸ U	0.016607	0.000036
²³⁶ U/ ²³⁸ U	0.001086	0.000024
²³⁸ Pu abundance	0.11770 wt %	0.00061 wt %
²³⁹ Pu abundance	75.914 wt %	0.011 wt %
²⁴⁰ Pu abundance	21.877 wt %	0.011 wt %
²⁴¹ Pu abundance	1.3582 wt %	0.0045 wt %
²⁴² Pu abundance	0.7321 wt %	0.0040 wt %
²⁴⁴ Pu abundance	0.00027 wt %	0.00034 wt %
²³⁴ U abundance	0.0409 wt %	0.0014 wt %
²³⁵ U abundance	1.6109 wt %	0.0035 wt %
²³⁶ U abundance	0.1058 wt %	0.0024 wt %
²³⁸ U abundance	98.2425 wt %	0.0044 wt %
Plutonium atomic weight	239.318	
Uranium atomic weight	237.998	
Reference date	1 March 1997, results valid for sample weight on bottling.	