

8717
5 items

Table 23 The certified composition of the 10:1 MOX powder

Quantity	Certified Result	Uncertainty (2S)
U/Pu ratio	9.588	0.013
Pu concentration	8.2342 wt %	0.0084 wt %
U concentration	78.953 wt %	0.073 wt %
²³⁷ Np/Pu	0.00058	0.00003
²⁴¹ Am/Pu	0.02511	0.00010
Total metal impurities (excluding Np, Am)	<0.07 wt %	
²³⁸ Pu/ ²³⁹ Pu	0.001560	0.000008
²⁴⁰ Pu/ ²³⁹ Pu	0.28700	0.00021
²⁴¹ Pu/ ²³⁹ Pu	0.017670	0.000099
²⁴² Pu/ ²³⁹ Pu	0.00936	0.00018
²⁴⁴ Pu/ ²³⁹ Pu	0.000000	-
²³⁴ U/ ²³⁸ U	0.000224	0.000024
²³⁵ U/ ²³⁸ U	0.015898	0.000038
²³⁶ U/ ²³⁸ U	0.000609	0.000018
²³⁸ Pu abundance	0.11793 wt %	0.00061 wt %
²³⁹ Pu abundance	75.927 wt %	0.017 wt %
²⁴⁰ Pu abundance	21.882 wt %	0.013 wt %
²⁴¹ Pu abundance	1.3529 wt %	0.0075 wt %
²⁴² Pu abundance	0.720 wt %	0.014 wt %
²⁴⁴ Pu abundance	0.00000 wt %	
²³⁴ U abundance	0.0216 wt %	0.0023 wt %
²³⁵ U abundance	1.5442 wt %	0.0036 wt %
²³⁶ U abundance	0.0594 wt %	0.0017 wt %
²³⁸ U abundance	98.3747 wt %	0.0047 wt %
Plutonium atomic weight	239.318	
Uranium atomic weight	238.002	
Reference date	1 March 1997, results valid for sample weight on bottling.	