



<text><list-item><list-item><list-item>

















TRISO Bar	rier				
Radionuclide Dif	fusion				
Incromontal TRISO failure due to design basic		D. (m²/s)	Q <sub>1</sub> (kJ/mol)	D <sub>2</sub> (m <sup>2</sup> /s)	Q <sub>2</sub> (kJ/r
accident mechanical and thermal stresses will be precluded by design.	Cesium				
	Kernel	5.6×10 <sup>+</sup>	209	5.2×10 <sup>-4</sup>	362
	Buffer & Buffer-IPyC Gap	10-4	0		
	PyC	6.3×10 <sup>4</sup>	222		-
Diffusivity through TRISO layers data exists for:         Cesium,         Strontium,         Silver, and         Krypton.	sic	5.5×10 <sup>-14</sup> × e <sup>1.5×80</sup> e is the fast neutron fluence (x10 <sup>-11</sup> m/m <sup>2</sup> , E <sub>1</sub> ≥ 0.35 MeV)	125	1.6×10 <sup>-2</sup>	514
	Matrix	3.6×10 <sup>-4</sup>	189		-
	Strontium				
	Kernel	2.2×10 <sup>-3</sup>	488		
	Buffer & Buffer-IPyC Gap	10-*	0		
	PyC	2.3×10 <sup>4</sup>	197		
	SIC	1.2×10°	205	1.8×10 <sup>4</sup>	79
	Matrix	1.0×10 <sup>-2</sup>	303		
	Silver				
<ul> <li>Compromised layers have their diffusivities set to high values.</li> </ul>	Kernel	6.7×10 <sup>-9</sup>	165		
	Buffer & Buffer-IPyC Gap	10.4	0		
	PyC	5.3×10°	154		
	SIC	3.6×10*	215		-
	Matrix	1.6	258		-
	Krypton (lodine, Xe)				
	Kernel - Normal Operation	1.3×10 <sup>-12</sup>	126		
	Kernel - Accident	8.8×10 <sup>-15</sup>	54	6.0×10 <sup>-1</sup>	480
	Buffer & Buffer-IPyC Gap	10-4	0		
	PyC	2.9×10*	291	2.0×10 <sup>4</sup>	923
	SIC - T>1625.9 K	3.7×101	657		
	SIC - T≤1625.9 K	8.6×10-%	326		-
	Matrix	6.0+104	0		







