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DOE SNF Canister

Reflector Material ID

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ATR	95
ATR	96
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TRIGA	95





Reflector Material	Reflector Thickness (cm)
Concrete	0
Water	0
Stainless Steel	0
Lead	0
Natural U Metal	0
Titanium	0
HLW Glass	0
Tuff	0
Alloy 22	0
UO2 (5wt% U235)	0
Concrete	10
Concrete	100
Concrete	20
Concrete	30
Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80
Concrete	90
Water	10
Water	100
Water	20
Water	30

Water	40
Water	50
Water	60
Water	70
Water	80
Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30
Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80
Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30
Lead	40
Lead	50
Lead	60
Lead	70
Lead	80

Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30
Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80
Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30
Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80
Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30



HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80
HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30
Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80
Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30
Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80

Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30
UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80
UO2 (5wt% U235)	90
Concrete	N/A
Water	N/A
Stainless Steel	N/A
Lead	N/A
Natural U Metal	N/A
Titanium	N/A
HLW Glass	N/A
Tuff	N/A
Alloy 22	N/A
UO2 (5wt% U235)	N/A
Concrete	10
Concrete	100
Concrete	20
Concrete	30

Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80
Concrete	90
Water	10
Water	100
Water	20
Water	30
Water	40
Water	50
Water	60
Water	70
Water	80
Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30
Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80

Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30
Lead	40
Lead	50
Lead	60
Lead	70
Lead	80
Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30
Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80
Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30

Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80
Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30
HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80
HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30
Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80

Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30
Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80
Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30
UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80
UO2 (5wt% U235)	90
Concrete	0
Water	0
Stainless Steel	0
Lead	0

Natural U Metal	0
Titanium	0
HLW Glass	0
Tuff	0
Alloy 22	0
UO2 (5wt% U235)	0
Concrete	10
Concrete	100
Concrete	20
Concrete	30
Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80
Concrete	90
Water	10
Water	100
Water	20
Water	30
Water	40
Water	50
Water	60
Water	70
Water	80

Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30
Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80
Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30
Lead	40
Lead	50
Lead	60
Lead	70
Lead	80
Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30



Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80
Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30
Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80
Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30
HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80

HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30
Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80
Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30
Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80
Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30

UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80
UO2 (5wt% U235)	90
Concrete	0
Water	0
Stainless Steel	0
Lead	0
Natural U Metal	0
Titanium	0
HLW Glass	0
Tuff	0
Alloy 22	0
UO2 (5wt% U235)	0
Concrete	10
Concrete	100
Concrete	20
Concrete	30
Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80

Concrete	90
Water	10
Water	100
Water	20
Water	30
Water	40
Water	50
Water	60
Water	70
Water	80
Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30
Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80
Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30

Lead	40
Lead	50
Lead	60
Lead	70
Lead	80
Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30
Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80
Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30
Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80

Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30
HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80
HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30
Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80
Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30

Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80
Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30
UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80
UO2 (5wt% U235)	90
Concrete	N/A
Water	N/A
Stainless Steel	N/A
Lead	N/A
Natural U Metal	N/A
Titanium	N/A
HLW Glass	N/A
Tuff	N/A
Alloy 22	N/A

UO2 (5wt% U235)	N/A
Concrete	10
Concrete	100
Concrete	20
Concrete	30
Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80
Concrete	90
Water	10
Water	100
Water	20
Water	30
Water	40
Water	50
Water	60
Water	70
Water	80
Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30



Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80
Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30
Lead	40
Lead	50
Lead	60
Lead	70
Lead	80
Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30
Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80

Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30
Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80
Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30
HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80
HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30

Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80
Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30
Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80
Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30
UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80

UO2 (5wt% U235)	90
Concrete	0
Water	0
Stainless Steel	0
Lead	0
Natural U Metal	0
Titanium	0
HLW Glass	0
Tuff	0
Alloy 22	0
UO2 (5wt% U235)	0
Concrete	10
Concrete	100
Concrete	20
Concrete	30
Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80
Concrete	90
Water	10
Water	100
Water	20
Water	30

Water	40
Water	50
Water	60
Water	70
Water	80
Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30
Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80
Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30
Lead	40
Lead	50
Lead	60
Lead	70
Lead	80

Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30
Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80
Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30
Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80
Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30

HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80
HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30
Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80
Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30
Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80

Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30
UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80
UO2 (5wt% U235)	90
Concrete	0
Water	0
Stainless Steel	0
Lead	0
Natural U Metal	0
Titanium	0
HLW Glass	0
Tuff	0
Alloy 22	0
UO2 (5wt% U235)	0
Concrete	10
Concrete	100
Concrete	20
Concrete	30



Concrete	40
Concrete	50
Concrete	60
Concrete	70
Concrete	80
Concrete	90
Water	10
Water	100
Water	20
Water	30
Water	40
Water	50
Water	60
Water	70
Water	80
Water	90
Stainless Steel	10
Stainless Steel	100
Stainless Steel	20
Stainless Steel	30
Stainless Steel	40
Stainless Steel	50
Stainless Steel	60
Stainless Steel	70
Stainless Steel	80

Stainless Steel	90
Lead	10
Lead	100
Lead	20
Lead	30
Lead	40
Lead	50
Lead	60
Lead	70
Lead	80
Lead	90
Natural U Metal	10
Natural U Metal	100
Natural U Metal	20
Natural U Metal	30
Natural U Metal	40
Natural U Metal	50
Natural U Metal	60
Natural U Metal	70
Natural U Metal	80
Natural U Metal	90
Titanium	10
Titanium	100
Titanium	20
Titanium	30

Titanium	40
Titanium	50
Titanium	60
Titanium	70
Titanium	80
Titanium	90
HLW Glass	10
HLW Glass	100
HLW Glass	20
HLW Glass	30
HLW Glass	40
HLW Glass	50
HLW Glass	60
HLW Glass	70
HLW Glass	80
HLW Glass	90
Tuff	10
Tuff	100
Tuff	20
Tuff	30
Tuff	40
Tuff	50
Tuff	60
Tuff	70
Tuff	80

Tuff	90
Alloy 22	10
Alloy 22	100
Alloy 22	20
Alloy 22	30
Alloy 22	40
Alloy 22	50
Alloy 22	60
Alloy 22	70
Alloy 22	80
Alloy 22	90
UO2 (5wt% U235)	10
UO2 (5wt% U235)	100
UO2 (5wt% U235)	20
UO2 (5wt% U235)	30
UO2 (5wt% U235)	40
UO2 (5wt% U235)	50
UO2 (5wt% U235)	60
UO2 (5wt% U235)	70
UO2 (5wt% U235)	80
UO2 (5wt% U235)	90

k-eff	sd	k-eff +2sd
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.03204	0.00007	0.03218
0.11591	0.00038	0.11667
0.18578	0.00054	0.18686
0.17103	0.00051	0.17205
0.18331	0.00052	0.18435
0.18474	0.00053	0.1858
0.18667	0.00057	0.18781
0.18557	0.00061	0.18679
0.18578	0.00054	0.18686
0.18578	0.00054	0.18686
0.18578	0.00054	0.18686
0.15008	0.00052	0.15112
0.15096	0.00047	0.1519
0.15078	0.00052	0.15182
0.15096	0.00047	0.1519

0.15096	0.00047	0.1519
0.15096	0.00047	0.1519
0.15096	0.00047	0.1519
0.15096	0.00047	0.1519
0.15096	0.00047	0.1519
0.15096	0.00047	0.1519
0.08357	0.00025	0.08407
0.15695	0.00038	0.15771
0.12785	0.00033	0.12851
0.14838	0.0004	0.14918
0.15495	0.00041	0.15577
0.15652	0.00037	0.15726
0.15683	0.00034	0.15751
0.15692	0.00037	0.15766
0.15637	0.00041	0.15719
0.15639	0.00036	0.15711
0.06494	0.00019	0.06532
0.24884	0.00054	0.24992
0.09962	0.00028	0.10018
0.13295	0.00035	0.13365
0.16273	0.00046	0.16365
0.18744	0.00046	0.18836
0.20904	0.00045	0.20994
0.22473	0.00053	0.22579
0.23578	0.00052	0.23682

0.24397	0.00056	0.24509
0.34944	0.00062	0.35068
0.45114	0.0007	0.45254
0.39441	0.00061	0.39563
0.42264	0.00063	0.4239
0.43372	0.00064	0.435
0.44119	0.00061	0.44241
0.44293	0.00062	0.44417
0.44704	0.00069	0.44842
0.44924	0.00065	0.45054
0.44965	0.00072	0.45109
0.05735	0.00018	0.05771
0.13319	0.00033	0.13385
0.07789	0.00025	0.07839
0.09626	0.00029	0.09684
0.10863	0.00034	0.10931
0.11884	0.00033	0.1195
0.12442	0.00034	0.1251
0.12904	0.00033	0.1297
0.13091	0.00033	0.13157
0.13299	0.00035	0.13369
0.07538	0.00019	0.07576
0.10387	0.00024	0.10435
0.09856	0.00025	0.09906
0.10289	0.00024	0.10337

0.10399	0.00026	0.10451
0.10437	0.00025	0.10487
0.10367	0.00023	0.10413
0.10429	0.00026	0.10481
0.10385	0.00025	0.10435
0.10422	0.00024	0.1047
0.11457	0.00043	0.11543
0.18536	0.00053	0.18642
0.17118	0.00055	0.17228
0.18389	0.00054	0.18497
0.18436	0.00056	0.18548
0.18549	0.0006	0.18669
0.18512	0.00059	0.1863
0.185	0.00059	0.18618
0.18536	0.00053	0.18642
0.18536	0.00053	0.18642
0.09537	0.00027	0.09591
0.13286	0.00034	0.13354
0.12537	0.00032	0.12601
0.13176	0.00029	0.13234
0.13272	0.00035	0.13342
0.13254	0.00031	0.13316
0.1328	0.00027	0.13334
0.13286	0.00034	0.13354
0.13286	0.00034	0.13354



0.13286	0.00034	0.13354
0.452	0.00059	0.45318
0.77642	0.00065	0.77772
0.57838	0.00062	0.57962
0.66219	0.00065	0.66349
0.70479	0.00068	0.70615
0.73219	0.00057	0.73333
0.74784	0.00061	0.74906
0.75907	0.00069	0.76045
0.76498	0.00067	0.76632
0.77145	0.00056	0.77257
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.33603	0.00048	0.33699
0.45139	0.00065	0.45269
0.4712	0.00078	0.47276
0.47015	0.00069	0.47153
0.47303	0.00073	0.47449

0.47192	0.00067	0.47326
0.47266	0.00071	0.47408
0.47059	0.00071	0.47201
0.47256	0.00074	0.47404
0.47071	0.00075	0.47221
0.4712	0.00078	0.47276
0.39459	0.00065	0.39589
0.39454	0.00061	0.39576
0.39429	0.00066	0.39561
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.39454	0.00061	0.39576
0.46586	0.00069	0.46724
0.55144	0.00073	0.5529
0.52384	0.0007	0.52524
0.54272	0.0007	0.54412
0.55006	0.00076	0.55158
0.54883	0.00075	0.55033
0.5506	0.00064	0.55188
0.55071	0.00068	0.55207
0.54974	0.00073	0.5512

0.55011	0.00069	0.55149
0.44923	0.00066	0.45055
0.6459	0.00078	0.64746
0.51682	0.00067	0.51816
0.55823	0.00076	0.55975
0.58802	0.00071	0.58944
0.6078	0.00085	0.6095
0.62002	0.0008	0.62162
0.63235	0.00076	0.63387
0.63782	0.00073	0.63928
0.64159	0.00074	0.64307
0.52301	0.0007	0.52441
0.57202	0.0007	0.57342
0.56216	0.00073	0.56362
0.56915	0.00073	0.57061
0.5711	0.00075	0.5726
0.57	0.00069	0.57138
0.57142	0.00073	0.57288
0.57185	0.0007	0.57325
0.57157	0.00068	0.57293
0.57206	0.00068	0.57342
0.4131	0.00059	0.41428
0.50506	0.00066	0.50638
0.44872	0.00066	0.45004
0.47127	0.0007	0.47267

0.48361	0.00074	0.48509
0.49287	0.00072	0.49431
0.49734	0.00064	0.49862
0.50119	0.00073	0.50265
0.50309	0.00068	0.50445
0.50351	0.00068	0.50487
0.46198	0.00064	0.46326
0.49971	0.0007	0.50111
0.49519	0.00065	0.49649
0.49865	0.00059	0.49983
0.49948	0.00068	0.50084
0.50123	0.00073	0.50269
0.50043	0.00071	0.50185
0.49874	0.00071	0.50016
0.50035	0.00064	0.50163
0.49914	0.00072	0.50058
0.45429	0.00072	0.45573
0.47954	0.0007	0.48094
0.47654	0.00069	0.47792
0.47873	0.00068	0.48009
0.47992	0.00074	0.4814
0.47835	0.00068	0.47971
0.47857	0.00068	0.47993
0.47921	0.00074	0.48069
0.47827	0.00069	0.47965

0.47888	0.00073	0.48034
0.49937	0.0007	0.50077
0.54982	0.00066	0.55114
0.54279	0.00077	0.54433
0.54861	0.00069	0.54999
0.54986	0.00068	0.55122
0.54973	0.00068	0.55109
0.55029	0.00062	0.55153
0.55124	0.00074	0.55272
0.54982	0.00066	0.55114
0.54982	0.00066	0.55114
0.5725	0.00071	0.57392
0.7928	0.00062	0.79404
0.68714	0.00063	0.6884
0.7349	0.00065	0.7362
0.75937	0.00065	0.76067
0.77165	0.00063	0.77291
0.77919	0.0006	0.78039
0.78628	0.00066	0.7876
0.79137	0.00062	0.79261
0.7915	0.00066	0.79282
0.47008	0.00063	0.47134
0.47008	0.00063	0.47134
0.47008	0.00063	0.47134
0.47008	0.00063	0.47134



0.53095	0.00073	0.53241
0.61986	0.00088	0.62162
0.69807	0.00089	0.69985
0.67448	0.00092	0.67632
0.6926	0.00081	0.69422
0.6973	0.00091	0.69912
0.69826	0.00094	0.70014
0.69897	0.001	0.70097
0.69833	0.00086	0.70005
0.70045	0.00087	0.70219
0.69775	0.00087	0.69949
0.59945	0.00084	0.60113
0.77303	0.00092	0.77487
0.66546	0.00085	0.66716
0.70417	0.0009	0.70597
0.72853	0.00094	0.73041
0.74628	0.00091	0.7481
0.75862	0.00086	0.76034
0.76512	0.00099	0.7671
0.76935	0.001	0.77135
0.77071	0.00093	0.77257
0.65359	0.00078	0.65515
0.68926	0.00085	0.69096
0.68384	0.00076	0.68536
0.69055	0.00085	0.69225

0.68985	0.00085	0.69155
0.69044	0.00082	0.69208
0.69052	0.00082	0.69216
0.69045	0.00085	0.69215
0.69098	0.00084	0.69266
0.68947	0.00086	0.69119
0.56499	0.00066	0.56631
0.65614	0.00086	0.65786
0.60478	0.00084	0.60646
0.62591	0.00081	0.62753
0.63824	0.00089	0.64002
0.64563	0.00084	0.64731
0.65003	0.00089	0.65181
0.65262	0.0009	0.65442
0.65146	0.00085	0.65316
0.65533	0.0009	0.65713
0.59582	0.00083	0.59748
0.6316	0.0008	0.6332
0.62668	0.00081	0.6283
0.63276	0.00079	0.63434
0.6319	0.00082	0.63354
0.63225	0.00082	0.63389
0.63191	0.00081	0.63353
0.63235	0.00083	0.63401
0.63139	0.00085	0.63309



0.63305	0.00087	0.63479
0.59234	0.00081	0.59396
0.61804	0.00098	0.62
0.61651	0.00086	0.61823
0.61909	0.00089	0.62087
0.61928	0.00088	0.62104
0.61824	0.00077	0.61978
0.6188	0.00083	0.62046
0.61933	0.00086	0.62105
0.61774	0.00091	0.61956
0.61839	0.00083	0.62005
0.64659	0.00088	0.64835
0.69331	0.00081	0.69493
0.68529	0.00085	0.68699
0.69157	0.0009	0.69337
0.69225	0.00086	0.69397
0.6939	0.00091	0.69572
0.69315	0.00084	0.69483
0.69118	0.00085	0.69288
0.69312	0.00085	0.69482
0.69317	0.00086	0.69489
0.68996	0.00083	0.69162
0.83124	0.00068	0.8326
0.77622	0.00078	0.77778
0.80735	0.00077	0.80889

0.82406	0.00085	0.82576
0.82561	0.00071	0.82703
0.83022	0.0007	0.83162
0.83254	0.00071	0.83396
0.8318	0.00074	0.83328
0.83259	0.00071	0.83401
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.08358	0.00054	0.08466
0.2135	0.0007	0.2149
0.28924	0.00085	0.29094
0.27406	0.00078	0.27562
0.28771	0.00084	0.28939
0.28852	0.00087	0.29026
0.28929	0.00082	0.29093
0.28951	0.00079	0.29109
0.28969	0.00085	0.29139
0.29042	0.00086	0.29214

0.28924	0.00085	0.29094
0.25392	0.0008	0.25552
0.25398	0.00078	0.25554
0.2546	0.00083	0.25626
0.25398	0.00078	0.25554
0.25398	0.00078	0.25554
0.25398	0.00078	0.25554
0.25398	0.00078	0.25554
0.25398	0.00078	0.25554
0.25398	0.00078	0.25554
0.25398	0.00078	0.25554
0.2324	0.00073	0.23386
0.29898	0.0008	0.30058
0.27803	0.00083	0.27969
0.29377	0.00087	0.29551
0.29813	0.00087	0.29987
0.29955	0.00083	0.30121
0.29925	0.00081	0.30087
0.30091	0.00082	0.30255
0.29873	0.0008	0.30033
0.3002	0.00079	0.30178
0.20207	0.00079	0.20365
0.4406	0.00097	0.44254
0.28229	0.00086	0.28401
0.33343	0.00097	0.33537

0.36935	0.00085	0.37105
0.39304	0.00097	0.39498
0.41188	0.00092	0.41372
0.42314	0.00094	0.42502
0.43268	0.00088	0.43444
0.43722	0.00102	0.43926
0.39675	0.00072	0.39819
0.48717	0.0007	0.48857
0.46513	0.00076	0.46665
0.47995	0.00077	0.48149
0.48494	0.00077	0.48648
0.4877	0.00073	0.48916
0.48602	0.0008	0.48762
0.48858	0.00067	0.48992
0.488	0.00077	0.48954
0.4881	0.00073	0.48956
0.16251	0.00069	0.16389
0.25004	0.00076	0.25156
0.20038	0.00072	0.20182
0.21894	0.00075	0.22044
0.23215	0.00076	0.23367
0.24024	0.00077	0.24178
0.24468	0.00079	0.24626
0.2467	0.00075	0.2482
0.249	0.00079	0.25058

0.24925	0.00082	0.25089
0.15697	0.0006	0.15817
0.17946	0.00065	0.18076
0.1763	0.00075	0.1778
0.18046	0.00064	0.18174
0.18002	0.00075	0.18152
0.18004	0.00069	0.18142
0.18005	0.0007	0.18145
0.18036	0.00064	0.18164
0.18042	0.00067	0.18176
0.18137	0.00067	0.18271
0.21724	0.00076	0.21876
0.29124	0.00082	0.29288
0.27641	0.0008	0.27801
0.28977	0.00081	0.29139
0.29005	0.00083	0.29171
0.28996	0.00081	0.29158
0.29085	0.00085	0.29255
0.29124	0.00082	0.29288
0.29124	0.00082	0.29288
0.29124	0.00082	0.29288
0.22641	0.00075	0.22791
0.25775	0.00082	0.25939
0.25196	0.00069	0.25334
0.25671	0.00077	0.25825



0.1923	0.00061	0.19352
0.28992	0.00073	0.29138
0.31806	0.00083	0.31972
0.31548	0.00078	0.31704
0.316	0.0008	0.3176
0.31541	0.00074	0.31689
0.31726	0.00083	0.31892
0.31776	0.00079	0.31934
0.3164	0.00077	0.31794
0.31771	0.00084	0.31939
0.31679	0.00077	0.31833
0.26015	0.00073	0.26161
0.2599	0.00077	0.26144
0.26125	0.00073	0.26271
0.25979	0.0007	0.26119
0.25979	0.0007	0.26119
0.2599	0.00077	0.26144
0.2599	0.00077	0.26144
0.2599	0.00077	0.26144
0.2599	0.00077	0.26144
0.2599	0.00077	0.26144
0.30549	0.00079	0.30707
0.36963	0.00083	0.37129
0.34935	0.00084	0.35103
0.36606	0.0007	0.36746

0.36902	0.0009	0.37082
0.37212	0.0008	0.37372
0.37077	0.00076	0.37229
0.37075	0.00081	0.37237
0.37255	0.00078	0.37411
0.37154	0.00083	0.3732
0.27986	0.0007	0.28126
0.45892	0.0009	0.46072
0.33486	0.00073	0.33632
0.37347	0.00082	0.37511
0.39777	0.00087	0.39951
0.41924	0.001	0.42124
0.43382	0.00082	0.43546
0.44491	0.00088	0.44667
0.45204	0.00086	0.45376
0.45688	0.00087	0.45862
0.37832	0.0007	0.37972
0.46365	0.00069	0.46503
0.43357	0.00068	0.43493
0.45124	0.0007	0.45264
0.4575	0.00066	0.45882
0.46189	0.00061	0.46311
0.46341	0.00061	0.46463
0.4626	0.00071	0.46402
0.4646	0.00063	0.46586



0.46306	0.00067	0.4644
0.26191	0.00067	0.26325
0.34213	0.00076	0.34365
0.29525	0.00071	0.29667
0.31467	0.00083	0.31633
0.32426	0.00088	0.32602
0.3315	0.00078	0.33306
0.33575	0.00074	0.33723
0.33842	0.00077	0.33996
0.33935	0.00079	0.34093
0.34019	0.00074	0.34167
0.26863	0.00069	0.27001
0.29153	0.00068	0.29289
0.2869	0.00075	0.2884
0.29076	0.00071	0.29218
0.29165	0.00071	0.29307
0.29158	0.00067	0.29292
0.29234	0.00067	0.29368
0.29215	0.00069	0.29353
0.29275	0.00068	0.29411
0.29078	0.00069	0.29216
0.29263	0.00078	0.29419
0.3234	0.00073	0.32486
0.32055	0.00085	0.32225
0.3226	0.00087	0.32434

0.32361	0.00078	0.32517
0.32355	0.00083	0.32521
0.32279	0.00076	0.32431
0.32441	0.00076	0.32593
0.3234	0.00073	0.32486
0.3234	0.00073	0.32486
0.31498	0.00075	0.31648
0.34706	0.00077	0.3486
0.34116	0.00083	0.34282
0.34476	0.00072	0.3462
0.3463	0.00077	0.34784
0.34686	0.00074	0.34834
0.34668	0.00073	0.34814
0.34753	0.00076	0.34905
0.34706	0.00077	0.3486
0.34706	0.00077	0.3486
0.45367	0.00063	0.45493
0.77443	0.00062	0.77567
0.59984	0.00064	0.60112
0.67316	0.00069	0.67454
0.71147	0.00065	0.71277
0.73343	0.00058	0.73459
0.75012	0.00062	0.75136
0.75825	0.0006	0.75945
0.76804	0.00063	0.7693

0.77074	0.0006	0.77194
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.05914	0.00017	0.05948
0.14024	0.0005	0.14124
0.19915	0.00063	0.20041
0.18755	0.00059	0.18873
0.19774	0.00066	0.19906
0.19889	0.00067	0.20023
0.19857	0.00061	0.19979
0.19934	0.00062	0.20058
0.19923	0.00063	0.20049
0.19915	0.00063	0.20041
0.19936	0.00064	0.20064
0.16009	0.00053	0.16115
0.16154	0.00055	0.16264
0.16046	0.00059	0.16164
0.16177	0.00055	0.16287

0.16154	0.00055	0.16264
0.16154	0.00055	0.16264
0.16154	0.00055	0.16264
0.16154	0.00055	0.16264
0.16154	0.00055	0.16264
0.16154	0.00055	0.16264
0.11653	0.00041	0.11735
0.19275	0.00048	0.19371
0.16293	0.00053	0.16399
0.18386	0.00054	0.18494
0.19051	0.00048	0.19147
0.19235	0.00051	0.19337
0.19244	0.00056	0.19356
0.19319	0.00054	0.19427
0.19239	0.00057	0.19353
0.19162	0.00053	0.19268
0.09709	0.00032	0.09773
0.29082	0.00066	0.29214
0.13481	0.00043	0.13567
0.16898	0.0005	0.16998
0.20057	0.00057	0.20171
0.22722	0.00056	0.22834
0.24882	0.00069	0.2502
0.26433	0.00065	0.26563
0.27614	0.00068	0.2775

0.28289	0.00068	0.28425
0.34834	0.00059	0.34952
0.45231	0.00066	0.45363
0.40117	0.00057	0.40231
0.42708	0.00066	0.4284
0.43817	0.00063	0.43943
0.44482	0.00061	0.44604
0.44841	0.00069	0.44979
0.45042	0.00063	0.45168
0.45149	0.00063	0.45275
0.4518	0.00066	0.45312
0.08773	0.0003	0.08833
0.16373	0.00054	0.16481
0.10985	0.00037	0.11059
0.12736	0.00042	0.1282
0.13981	0.00047	0.14075
0.14916	0.00047	0.1501
0.15489	0.00048	0.15585
0.15983	0.00046	0.16075
0.16055	0.00046	0.16147
0.16103	0.00049	0.16201
0.10705	0.00032	0.10769
0.13646	0.00038	0.13722
0.13142	0.0004	0.13222
0.13603	0.00041	0.13685

0.1369	0.00044	0.13778
0.13722	0.00041	0.13804
0.13654	0.00039	0.13732
0.13661	0.00044	0.13749
0.1375	0.00039	0.13828
0.13779	0.0004	0.13859
0.14092	0.00048	0.14188
0.20174	0.00067	0.20308
0.18858	0.00058	0.18974
0.19957	0.00066	0.20089
0.2013	0.00063	0.20256
0.20116	0.00067	0.2025
0.20207	0.00061	0.20329
0.20158	0.00057	0.20272
0.20174	0.00067	0.20308
0.20174	0.00067	0.20308
0.12988	0.00035	0.13058
0.16942	0.00046	0.17034
0.16144	0.00045	0.16234
0.1684	0.00048	0.16936
0.16943	0.00045	0.17033
0.16944	0.00045	0.17034
0.17012	0.0005	0.17112
0.1696	0.00047	0.17054
0.16942	0.00046	0.17034

0.16942	0.00046	0.17034
0.44956	0.00058	0.45072
0.77686	0.00064	0.77814
0.5846	0.00065	0.5859
0.66955	0.00057	0.67069
0.71228	0.00065	0.71358
0.7373	0.00057	0.73844
0.75094	0.00065	0.75224
0.76133	0.00067	0.76267
0.76868	0.00065	0.76998
0.77522	0.0006	0.77642
0.47481	0.00121	0.47723
0.47481	0.00121	0.47723
0.47481	0.00121	0.47723
0.47481	0.00121	0.47723
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0.47481	0.00121	0.47723
0.47481	0.00121	0.47723
0.47481	0.00121	0.47723
0.53341	0.00129	0.53599
0.54066	0.00118	0.54302
0.53874	0.00111	0.54096
0.5381	0.00114	0.54038

0.5395	0.00108	0.54166
0.53984	0.00118	0.5422
0.53897	0.00107	0.54111
0.53828	0.00105	0.54038
0.53896	0.00121	0.54138
0.53971	0.0013	0.54231
0.50392	0.00125	0.50642
0.50091	0.00118	0.50327
0.50466	0.00116	0.50698
0.50091	0.00118	0.50327
0.50091	0.00118	0.50327
0.50091	0.00118	0.50327
0.50091	0.00118	0.50327
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0.50091	0.00118	0.50327
0.50091	0.00118	0.50327
0.50091	0.00118	0.50327
0.50091	0.00118	0.50327
0.55405	0.00114	0.55633
0.59124	0.00114	0.59352
0.57834	0.00117	0.58068
0.591	0.00121	0.59342
0.59025	0.00116	0.59257
0.59043	0.00105	0.59253
0.59321	0.0011	0.59541
0.59246	0.00114	0.59474
0.59124	0.00114	0.59352



0.59124	0.00114	0.59352
0.54434	0.0011	0.54654
0.63066	0.00114	0.63294
0.57683	0.00106	0.57895
0.59517	0.00115	0.59747
0.61085	0.00113	0.61311
0.61673	0.00118	0.61909
0.62355	0.00115	0.62585
0.62583	0.00107	0.62797
0.62733	0.00106	0.62945
0.62939	0.00105	0.63149
0.58943	0.00103	0.59149
0.61856	0.00099	0.62054
0.61559	0.00102	0.61763
0.62064	0.00106	0.62276
0.6189	0.00096	0.62082
0.62045	0.00102	0.62249
0.61929	0.001	0.62129
0.62125	0.00086	0.62297
0.61644	0.00101	0.61846
0.61816	0.00105	0.62026
0.52553	0.00118	0.52789
0.5661	0.00107	0.56824
0.54125	0.00121	0.54367
0.55235	0.00111	0.55457

0.55947	0.00113	0.56173
0.55995	0.00133	0.56261
0.56111	0.00112	0.56335
0.56452	0.00112	0.56676
0.56729	0.00113	0.56955
0.5654	0.00114	0.56768
0.53761	0.0012	0.54001
0.55305	0.0011	0.55525
0.55284	0.00108	0.555
0.55564	0.00118	0.558
0.55411	0.00125	0.55661
0.55538	0.00105	0.55748
0.55395	0.00111	0.55617
0.55284	0.0012	0.55524
0.55422	0.0011	0.55642
0.55305	0.0011	0.55525
0.53278	0.0011	0.53498
0.5441	0.0012	0.5465
0.54277	0.0012	0.54517
0.54238	0.00115	0.54468
0.54527	0.00109	0.54745
0.54449	0.00122	0.54693
0.5441	0.0012	0.5465
0.5441	0.0012	0.5465
0.5441	0.0012	0.5465

0.5441	0.0012	0.5465
0.56566	0.00116	0.56798
0.58608	0.0012	0.58848
0.58203	0.0011	0.58423
0.58577	0.00103	0.58783
0.58722	0.00105	0.58932
0.58729	0.00112	0.58953
0.58598	0.00117	0.58832
0.58638	0.00125	0.58888
0.58522	0.00115	0.58752
0.58608	0.0012	0.58848
0.62493	0.00093	0.62679
0.79031	0.00065	0.79161
0.69889	0.001	0.70089
0.73719	0.00088	0.73895
0.75576	0.00084	0.75744
0.76748	0.00071	0.7689
0.77573	0.00074	0.77721
0.77977	0.00066	0.78109
0.7859	0.00068	0.78726
0.78833	0.00066	0.78965

DOE SNF Canister	ATR
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k-eff+2sd	Reflector Material
Reflector Thickness (cm)	Alloy 22
0	0.03218
10	0.09591
20	0.12601
30	0.13234
40	0.13342
50	0.13316
60	0.13334
70	0.13354
80	0.13354
90	0.13354
100	0.13354

DOE SNF Canister	EF
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k-eff+2sd	Reflector Material
Reflector Thickness (cm)	Alloy 22
N/A	0.33699
10	0.50077
20	0.54433
30	0.54999

	40	0.55122
	50	0.55109
	60	0.55153
	70	0.55272
	80	0.55114
	90	0.55114
	100	0.55114

DOE SNF Canister	FFTF
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k-eff+2sd	Reflector Material	
Reflector Thickness (cm)	Alloy 22	
	0	0.47134
	10	0.64835
	20	0.68699
	30	0.69337
	40	0.69397
	50	0.69572
	60	0.69483
	70	0.69288
	80	0.69482
	90	0.69489
	100	0.69493

DOE SNF Canister	FSV
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k-eff+2sd	Reflector Material
Reflector Thickness (cm)	Alloy 22
0	0.08466
10	0.22791
20	0.25334
30	0.25825
40	0.25879
50	0.26016
60	0.25939
70	0.25939
80	0.25939
90	0.25939
100	0.25939

DOE SNF Canister	SLWBR
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k-eff+2sd	Reflector Material
Reflector Thickness (cm)	Alloy 22
N/A	0.19352
10	0.31648
20	0.34282

	30	0.3462
	40	0.34784
	50	0.34834
	60	0.34814
	70	0.34905
	80	0.3486
	90	0.3486
	100	0.3486

DOE SNF Canister	SPWR
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k-eff+2sd	Reflector Material	
Reflector Thickness (cm)		Alloy 22
	0	0.05948
	10	0.13058
	20	0.16234
	30	0.16936
	40	0.17033
	50	0.17034
	60	0.17112
	70	0.17054
	80	0.17034
	90	0.17034
	100	0.17034

DOE SNF Canister	TRIGA
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k-eff+2sd	Reflector Material
Reflector Thickness (cm)	Alloy 22
0	0.47723
10	0.56798
20	0.58423
30	0.58783
40	0.58932
50	0.58953
60	0.58832
70	0.58888
80	0.58752
90	0.58848
100	0.58848





























































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Concrete	HLW Glass	Lead	Natural U Metal
0.03218	0.03218	0.03218	0.03218
0.11667	0.07576	0.06532	0.35068
0.17205	0.09906	0.10018	0.39563
0.18435	0.10337	0.13365	0.4239
0.1858	0.10451	0.16365	0.435
0.18781	0.10487	0.18836	0.44241
0.18679	0.10413	0.20994	0.44417
0.18686	0.10481	0.22579	0.44842
0.18686	0.10435	0.23682	0.45054
0.18686	0.1047	0.24509	0.45109
0.18686	0.10435	0.24992	0.45254

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Concrete	HLW Glass	Lead	Natural U Metal
0.33699	0.33699	0.33699	0.33699
0.45269	0.46326	0.45055	0.52441
0.47153	0.49649	0.51816	0.56362
0.47449	0.49983	0.55975	0.57061

0.47326	0.50084	0.58944	0.5726
0.47408	0.50269	0.6095	0.57138
0.47201	0.50185	0.62162	0.57288
0.47404	0.50016	0.63387	0.57325
0.47221	0.50163	0.63928	0.57293
0.47276	0.50058	0.64307	0.57342
0.47276	0.50111	0.64746	0.57342

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Concrete	HLW Glass	Lead	Natural U Metal
0.47134	0.47134	0.47134	0.47134
0.59135	0.59748	0.60113	0.65515
0.61244	0.6283	0.66716	0.68536
0.61189	0.63434	0.70597	0.69225
0.61389	0.63354	0.73041	0.69155
0.6144	0.63389	0.7481	0.69208
0.61265	0.63353	0.76034	0.69216
0.6128	0.63401	0.7671	0.69215
0.61433	0.63309	0.77135	0.69266
0.61396	0.63479	0.77257	0.69119
0.6134	0.6332	0.77487	0.69096

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Concrete	HLW Glass	Lead	Natural U Metal
0.08466	0.08466	0.08466	0.08466
0.2149	0.15817	0.20365	0.39819
0.27562	0.1778	0.28401	0.46665
0.28939	0.18174	0.33537	0.48149
0.29026	0.18152	0.37105	0.48648
0.29093	0.18142	0.39498	0.48916
0.29109	0.18145	0.41372	0.48762
0.29139	0.18164	0.42502	0.48992
0.29214	0.18176	0.43444	0.48954
0.29094	0.18271	0.43926	0.48956
0.29094	0.18076	0.44254	0.48857

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Concrete	HLW Glass	Lead	Natural U Metal
0.19352	0.19352	0.19352	0.19352
0.29138	0.27001	0.28126	0.37972
0.31704	0.2884	0.33632	0.43493

0.3176	0.29218	0.37511	0.45264
0.31689	0.29307	0.39951	0.45882
0.31892	0.29292	0.42124	0.46311
0.31934	0.29368	0.43546	0.46463
0.31794	0.29353	0.44667	0.46402
0.31939	0.29411	0.45376	0.46586
0.31833	0.29216	0.45862	0.4644
0.31972	0.29289	0.46072	0.46503

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Concrete	HLW Glass	Lead	Natural U Metal
0.05948	0.05948	0.05948	0.05948
0.14124	0.10769	0.09773	0.34952
0.18873	0.13222	0.13567	0.40231
0.19906	0.13685	0.16998	0.4284
0.20023	0.13778	0.20171	0.43943
0.19979	0.13804	0.22834	0.44604
0.20058	0.13732	0.2502	0.44979
0.20049	0.13749	0.26563	0.45168
0.20041	0.13828	0.2775	0.45275
0.20064	0.13859	0.28425	0.45312
0.20041	0.13722	0.29214	0.45363

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Concrete	HLW Glass	Lead	Natural U Metal
0.47723	0.47723	0.47723	0.47723
0.53599	0.54001	0.54654	0.59149
0.54096	0.555	0.57895	0.61763
0.54038	0.558	0.59747	0.62276
0.54166	0.55661	0.61311	0.62082
0.5422	0.55748	0.61909	0.62249
0.54111	0.55617	0.62585	0.62129
0.54038	0.55524	0.62797	0.62297
0.54138	0.55642	0.62945	0.61846
0.54231	0.55525	0.63149	0.62026
0.54302	0.55525	0.63294	0.62054

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Stainless Steel	Titanium	Tuff
0.03218	0.03218	0.03218
0.08407	0.05771	0.11543
0.12851	0.07839	0.17228
0.14918	0.09684	0.18497
0.15577	0.10931	0.18548
0.15726	0.1195	0.18669
0.15751	0.1251	0.1863
0.15766	0.1297	0.18618
0.15719	0.13157	0.18642
0.15711	0.13369	0.18642
0.15771	0.13385	0.18642

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Stainless Steel	Titanium	Tuff
0.33699	0.33699	0.33699
0.46724	0.41428	0.45573
0.52524	0.45004	0.47792
0.54412	0.47267	0.48009

0.55158	0.48509	0.4814
0.55033	0.49431	0.47971
0.55188	0.49862	0.47993
0.55207	0.50265	0.48069
0.5512	0.50445	0.47965
0.55149	0.50487	0.48034
0.5529	0.50638	0.48094

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Stainless Steel

Titanium

Tuff

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0.47134	0.47134	0.47134
0.62162	0.56631	0.59396
0.67632	0.60646	0.61823
0.69422	0.62753	0.62087
0.69912	0.64002	0.62104
0.70014	0.64731	0.61978
0.70097	0.65181	0.62046
0.70005	0.65442	0.62105
0.70219	0.65316	0.61956
0.69949	0.65713	0.62005
0.69985	0.65786	0.62

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Stainless Steel	Titanium	Tuff
0.08466	0.08466	0.08466
0.23386	0.16389	0.21876
0.27969	0.20182	0.27801
0.29551	0.22044	0.29139
0.29987	0.23367	0.29171
0.30121	0.24178	0.29158
0.30087	0.24626	0.29255
0.30255	0.2482	0.29288
0.30033	0.25058	0.29288
0.30178	0.25089	0.29288
0.30058	0.25156	0.29288

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Stainless Steel	Titanium	Tuff
0.19352	0.19352	0.19352
0.30707	0.26325	0.29419
0.35103	0.29667	0.32225

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0.36746	0.31633	0.32434
0.37082	0.32602	0.32517
0.37372	0.33306	0.32521
0.37229	0.33723	0.32431
0.37237	0.33996	0.32593
0.37411	0.34093	0.32486
0.3732	0.34167	0.32486
0.37129	0.34365	0.32486

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Stainless Steel

Titanium

Tuff

0.05948	0.05948	0.05948
0.11735	0.08833	0.14188
0.16399	0.11059	0.18974
0.18494	0.1282	0.20089
0.19147	0.14075	0.20256
0.19337	0.1501	0.2025
0.19356	0.15585	0.20329
0.19427	0.16075	0.20272
0.19353	0.16147	0.20308
0.19268	0.16201	0.20308
0.19371	0.16481	0.20308

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Stainless Steel	Titanium	Tuff
0.47723	0.47723	0.47723
0.55633	0.52789	0.53498
0.58068	0.54367	0.54517
0.59342	0.55457	0.54468
0.59257	0.56173	0.54745
0.59253	0.56261	0.54693
0.59541	0.56335	0.5465
0.59474	0.56676	0.5465
0.59352	0.56955	0.5465
0.59352	0.56768	0.5465
0.59352	0.56824	0.5465

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UO2 (5wt% U235)	Water
0.03218	0.03218
0.45318	0.15112
0.57962	0.15182
0.66349	0.1519
0.70615	0.1519
0.73333	0.1519
0.74906	0.1519
0.76045	0.1519
0.76632	0.1519
0.77257	0.1519
0.77772	0.1519

UO2 (5wt% U235)	Water
0.33699	0.33699
0.57392	0.39589
0.6884	0.39561
0.7362	0.39576

0.76067	0.39576
0.77291	0.39576
0.78039	0.39576
0.7876	0.39576
0.79261	0.39576
0.79282	0.39576
0.79404	0.39576

UO2 (5wt% U235)	Water
0.47134	0.47134
0.69162	0.53187
0.77778	0.53439
0.80889	0.53241
0.82576	0.53241
0.82703	0.53241
0.83162	0.53241
0.83396	0.53241
0.83328	0.53241
0.83401	0.53241
0.8326	0.53241

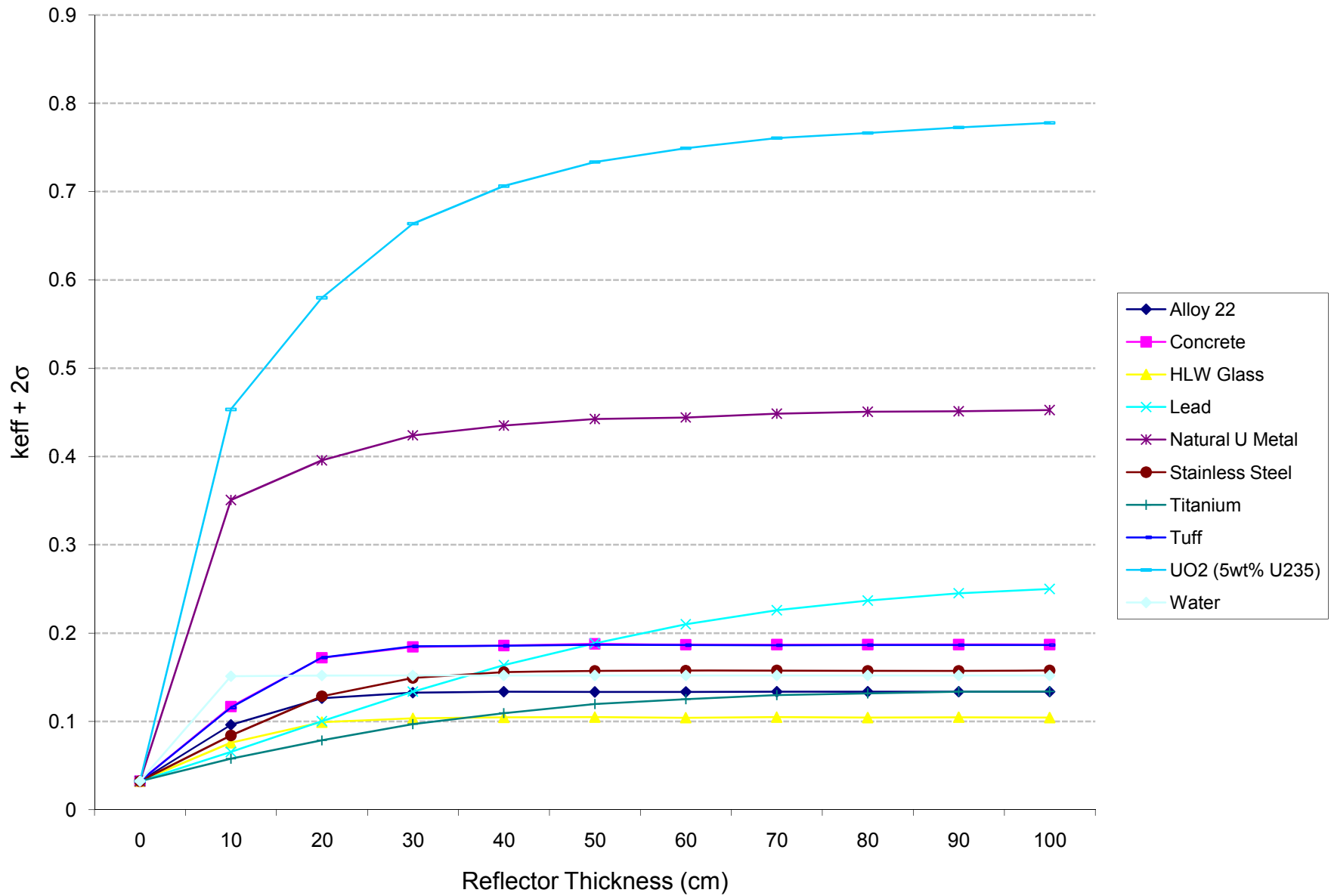
UO2 (5wt% U235)	Water
0.08466	0.08466
0.5036	0.25552
0.66915	0.25626
0.73481	0.25554
0.76208	0.25554
0.77886	0.25554
0.78784	0.25554
0.79299	0.25554
0.79634	0.25554
0.79795	0.25554
0.79974	0.25554

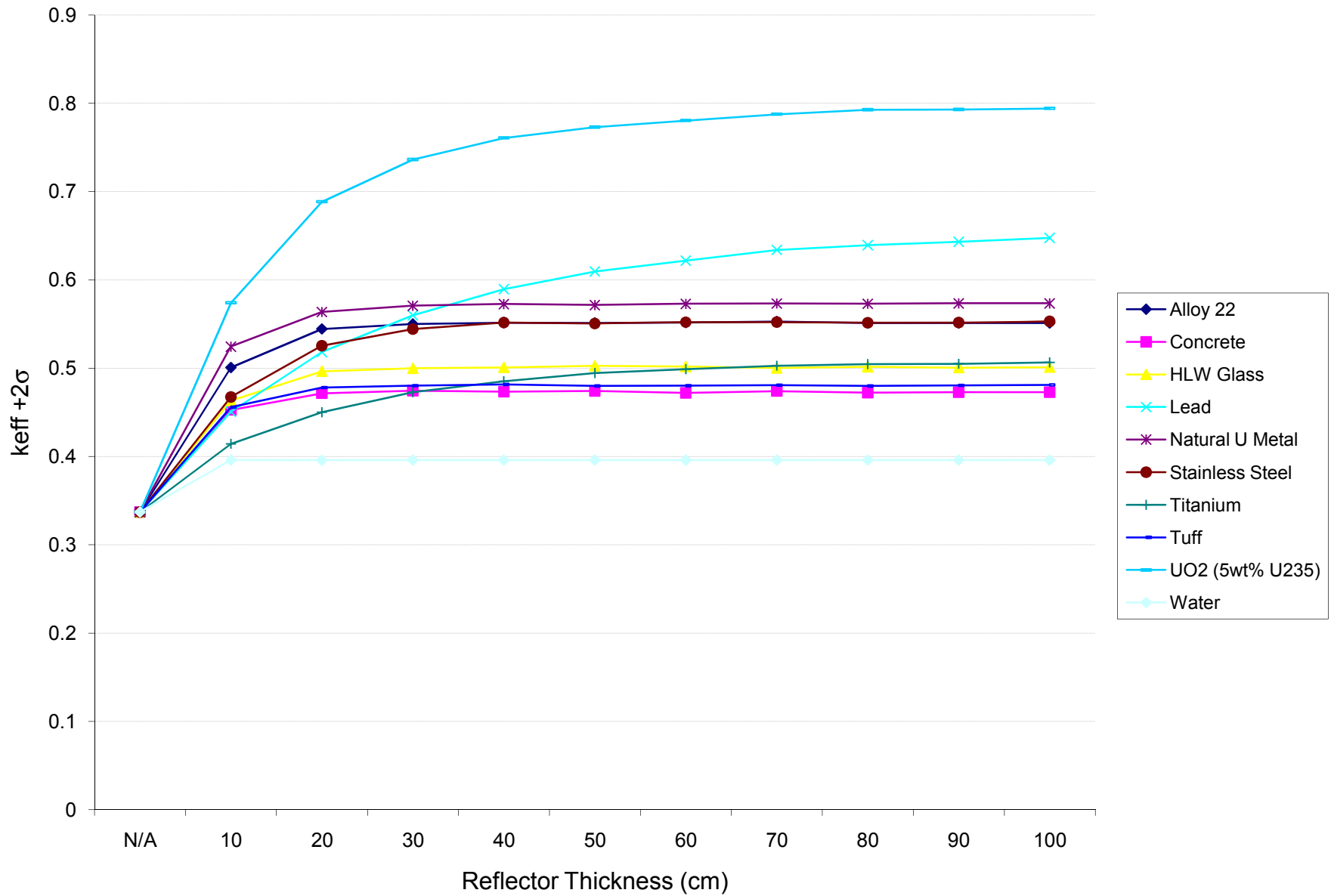
UO2 (5wt% U235)	Water
0.19352	0.19352
0.45493	0.26161
0.60112	0.26271

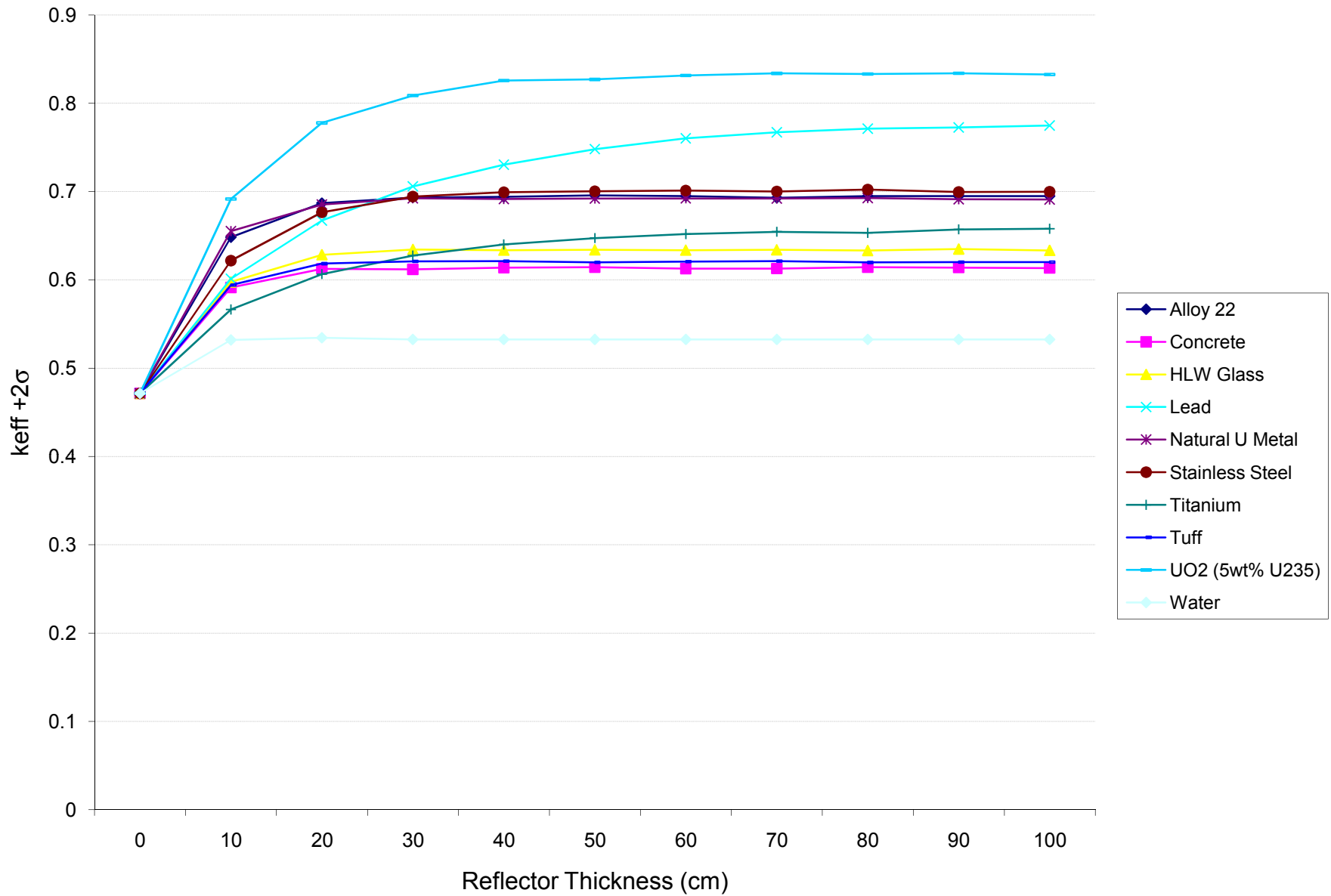
0.67454	0.26119
0.71277	0.26119
0.73459	0.26144
0.75136	0.26144
0.75945	0.26144
0.7693	0.26144
0.77194	0.26144
0.77567	0.26144

UO2 (5wt% U235)	Water
0.05948	0.05948
0.45072	0.16115
0.5859	0.16164
0.67069	0.16287
0.71358	0.16264
0.73844	0.16264
0.75224	0.16264
0.76267	0.16264
0.76998	0.16264
0.77642	0.16264
0.77814	0.16264

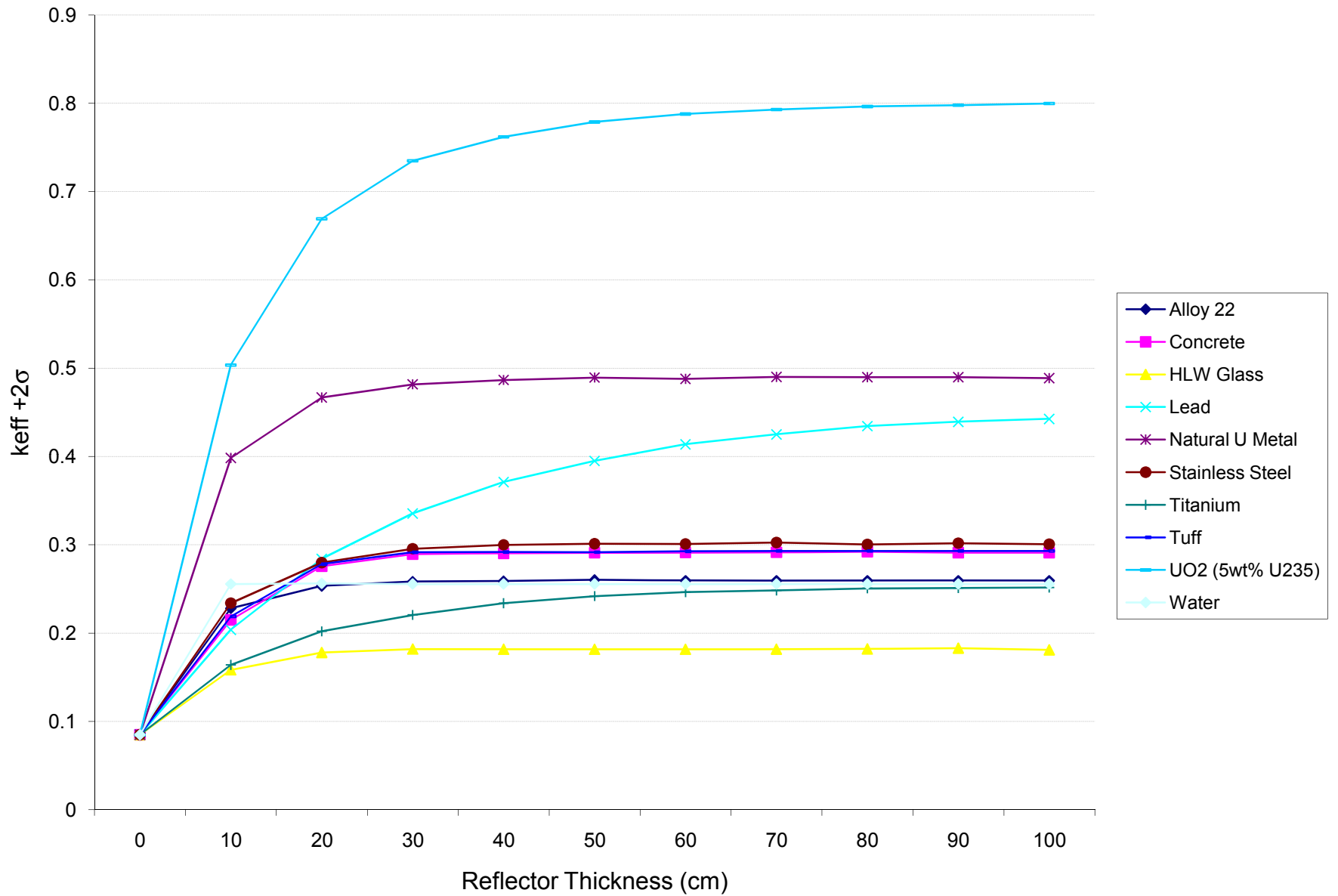
UO2 (5wt% U235)	Water
0.47723	0.47723
0.62679	0.50642
0.70089	0.50698
0.73895	0.50327
0.75744	0.50327
0.7689	0.50327
0.77721	0.50327
0.78109	0.50327
0.78726	0.50327
0.78965	0.50327
0.79161	0.50327

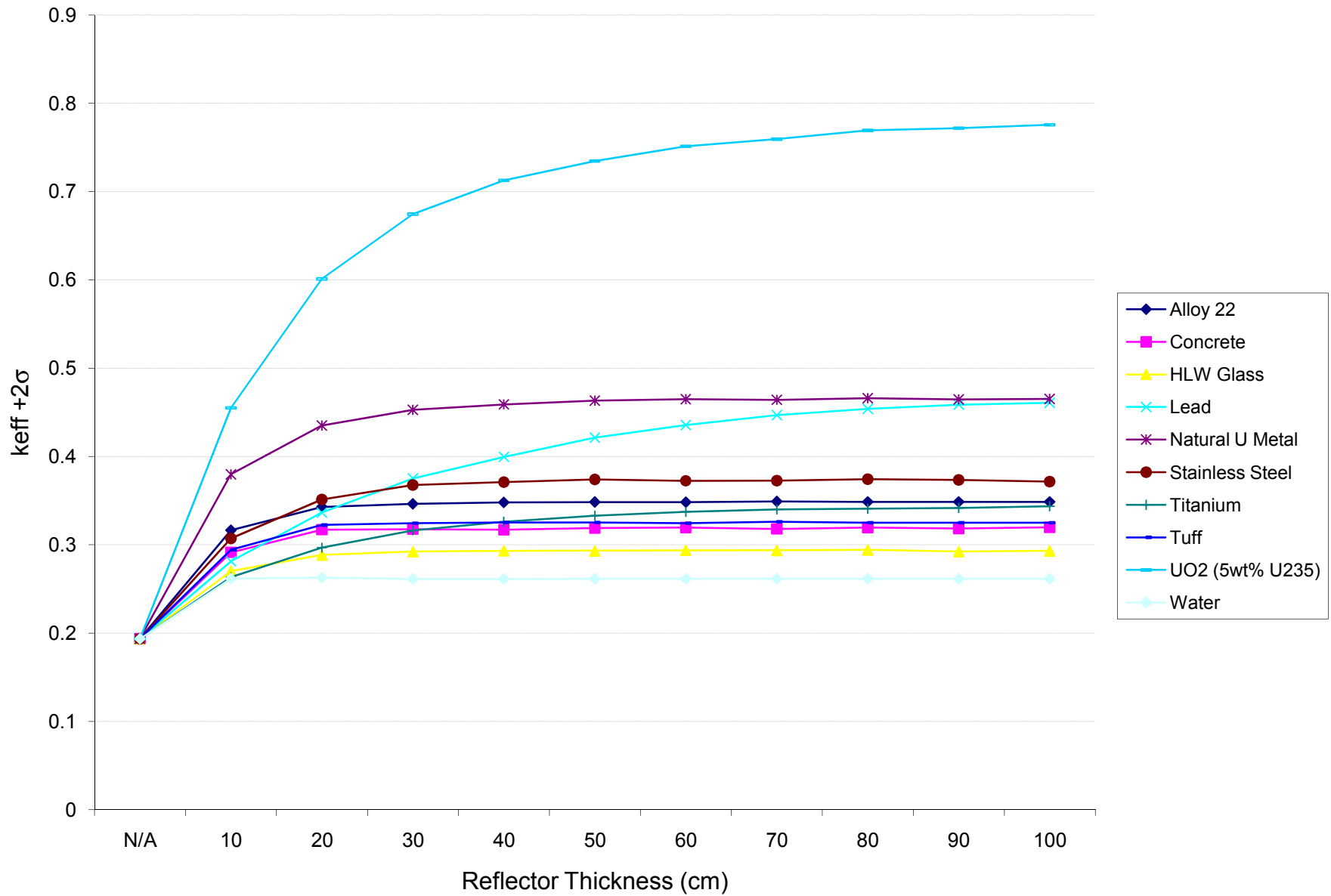


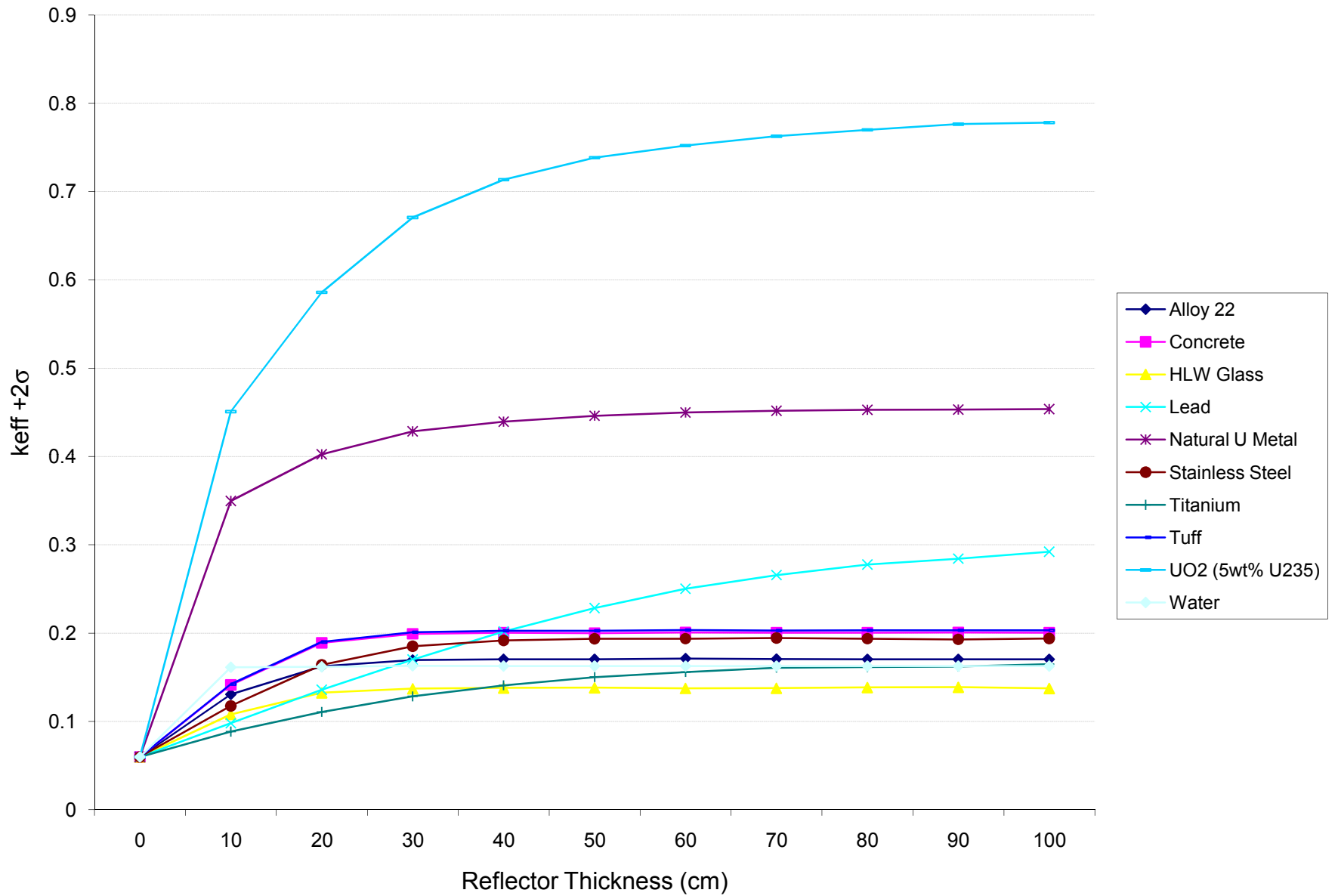


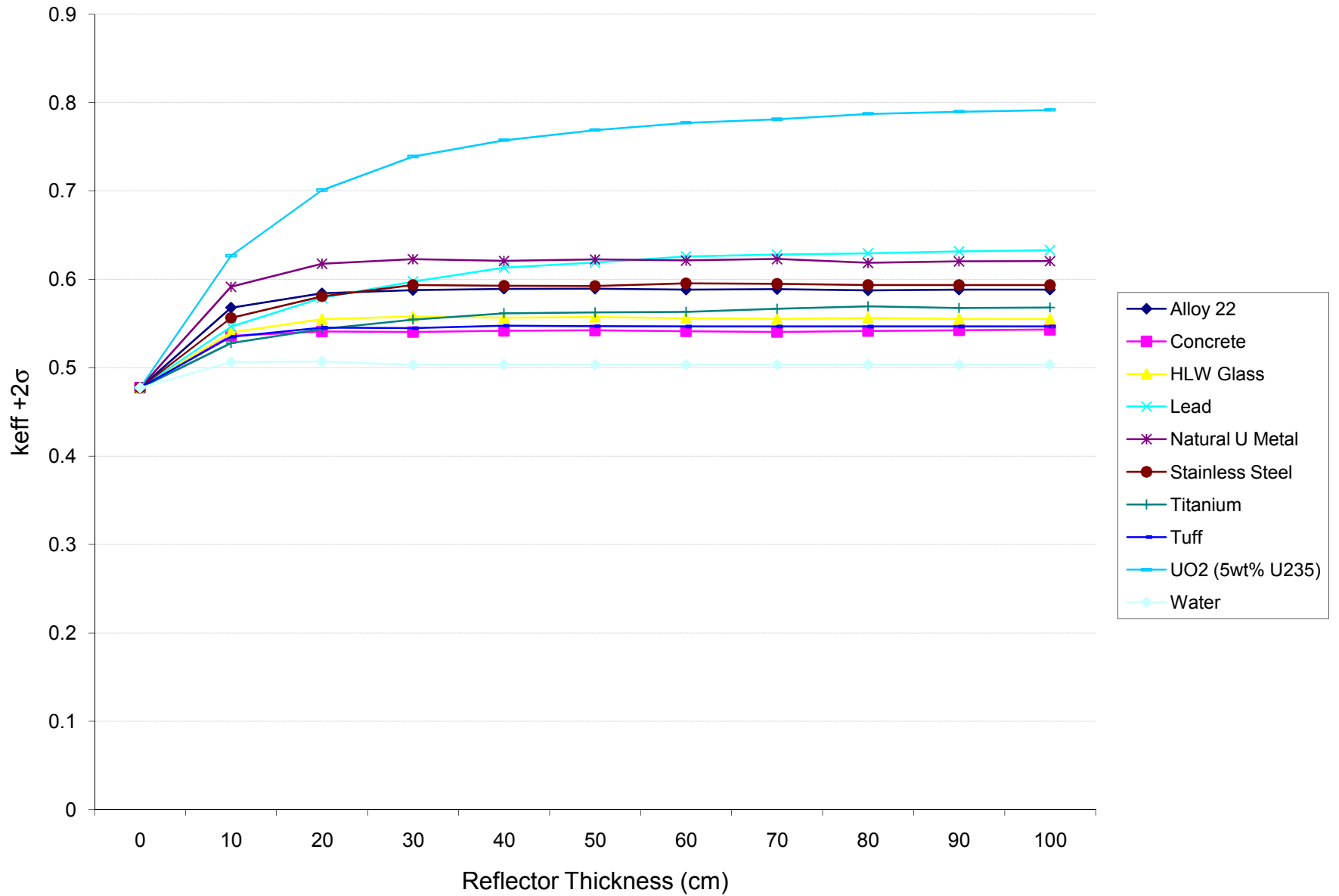












MCNP input file name

mixed\_7can\_group\_norm\_dry\_fff\_fsv\_in

fff\_7can\_group\_norm\_dry\_92\_in

MCNP output file name

mixed\_7can\_group\_norm\_dry\_fftf\_fsv\_ino

fftf\_7can\_group\_norm\_dry\_92\_ino

DOE SNF Canisters

Group Size

FFTF (6), FSV (1)

7

FFTF (7)

7

Reflector Material ID	Reflector Material	k-eff
92	Stainless Steel	0.87158
92	Stainless Steel	0.93596



sd	k-eff +2sd
0.00091	0.87340
0.001	0.93796