

Neutron Attenuation Data Sheet

Customer: Talon Composites
 Date: 5/8/2003
 Neutron Energy: 0.06 eV
 Crystal Plane: Copper (2,0,0)
 Aperature Size: 3/8"
 Counting Time: 60 seconds
 Data Recorder: A. Cook

Sample ID	Unattenuated Beam I_0	σ_{I_0}	Background B	σ_B	Attenuated I	σ_I	Transmission T	Attenuation A	σ_T, σ_A	
34-1	1	282765	532	126	11.2	11137	106	0.03896	0.96104	0.00038
	2	282765	532	126	11.2	11128	105	0.03893	0.96107	0.00038
	3	282765	532	126	11.2	11016	105	0.03853	0.96147	0.00038
							AVE	0.03880	0.96120	0.00033
34-2	1	283446	532	122	11.0	10919	104	0.03811	0.96189	0.00038
	2	283446	532	122	11.0	10987	105	0.03835	0.96165	0.00038
	3	283446	532	122	11.0	10926	105	0.03813	0.96187	0.00038
							AVE	0.03820	0.96180	0.00033
34-3	1	283604	533	145	12.0	11458	107	0.03991	0.96009	0.00039
	2	283604	533	145	12.0	11476	107	0.03997	0.96003	0.00039
	3	283604	533	145	12.0	11233	106	0.03912	0.96088	0.00038
							AVE	0.03967	0.96033	0.00033
34-4	1	283405	532	146	12.1	11218	106	0.03909	0.96091	0.00038
	2	283405	532	146	12.1	11197	106	0.03901	0.96099	0.00038
	3	283405	532	146	12.1	11578	108	0.04036	0.95964	0.00039
							AVE	0.03949	0.96051	0.00033
34-5	1	283199	532	145	12.0	11382	107	0.03970	0.96030	0.00039
	2	283199	532	145	12.0	11001	105	0.03835	0.96165	0.00038
	3	283199	532	145	12.0	11001	105	0.03835	0.96165	0.00038
							AVE	0.03880	0.96120	0.00033
34-6	1	283740	533	127	11.3	11049	105	0.03851	0.96149	0.00038
	2	283740	533	127	11.3	11152	106	0.03887	0.96113	0.00038
	3	283740	533	127	11.3	11132	106	0.03880	0.96120	0.00038
							AVE	0.03873	0.96127	0.00033
34-7	1	284746	534	144	12.0	11544	107	0.04006	0.95994	0.00039
	2	284746	534	144	12.0	11778	109	0.04088	0.95912	0.00039
	3	284746	534	144	12.0	11634	108	0.04037	0.95963	0.00039
							AVE	0.04044	0.95956	0.00034
34-8	1	283897	533	143	12.0	10775	104	0.03747	0.96253	0.00037
	2	283897	533	143	12.0	10903	104	0.03792	0.96208	0.00038
	3	283897	533	143	12.0	10926	105	0.03800	0.96200	0.00038
							AVE	0.03780	0.96220	0.00033

34-9	1	283712	533	143	12.0	11012	105	0.03833	0.96167	0.00038
	2	283712	533	143	12.0	11109	105	0.03867	0.96133	0.00038
	3	283712	533	143	12.0	11149	106	0.03881	0.96119	0.00038
							AVE	0.03860	0.96140	0.00033
34-10	1	283204	532	146	12.1	11381	107	0.03969	0.96031	0.00039
	2	283204	532	146	12.1	11345	107	0.03956	0.96044	0.00039
	3	283204	532	146	12.1	11203	106	0.03906	0.96094	0.00038
							AVE	0.03944	0.96056	0.00033
Before Standard UL341612- 1-22(1)	1	281832	531	115	10.7	11724	108	0.04090	0.95910	0.00039
	2	281832	531	115	10.7	11376	107	0.03967	0.96033	0.00038
	3	281832	531	115	10.7	11403	107	0.03977	0.96023	0.00039
							AVE	0.04012	0.95988	0.00034
After Standard UL341612- 1-22(1)	1	282917	532	114	10.7	11321	106	0.03948	0.96052	0.00038
	2	282917	532	114	10.7	11447	107	0.03992	0.96008	0.00039
	3	282917	532	114	10.7	11304	106	0.03942	0.96058	0.00038
							AVE	0.03961	0.96039	0.00033