

Reflectivity measurement - before, after vapour washing JKT secondary mirror

Equipment:	uscan reflectometer		
Mirror:	JKT Secondary mirror		
Person:	Juerg Rey		
Date:	03/01/2008		
Lambda (micron):	0.67		
Incident angle (degree):	25		
BW (Bandwidth) limits:	1	0.1	

JKT secondary mirror - before vapour washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	1.16E-02	7.79E-04	0.76	187.8	11:34:26	01/03/1908
2	1.02E-02	8.73E-04	0.798	137.8	11:34:39	01/03/1908
3	7.02E-03	4.97E-04	0.808	135.2	11:34:48	01/03/1908
4	9.50E-03	7.52E-04	0.83	139.4	11:34:58	01/03/1908
5	2.59E-02	1.74E-03	0.726	288.4	11:35:11	01/03/1908
6	9.17E-03	1.01E-03	0.8	108.1	11:35:20	01/03/1908
7	6.82E-03	5.97E-04	0.824	108.7	11:35:27	01/03/1908
average	1.145E-02	8.925E-04	0.792	157.914		
standard dev	6.577E-03	4.103E-04	0.037	63.359		

JKT secondary mirror - after vapour washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
9	1.78E-02	1.38E-03	0.745	204.9	11:51:00	01/03/1908
10	7.61E-03	6.25E-04	0.805	122.7	11:51:11	01/03/1908
11	7.38E-03	5.35E-04	0.845	132.4	11:51:21	01/03/1908
12	2.15E-02	1.54E-03	0.745	243.1	11:51:30	01/03/1908
13	8.23E-03	6.26E-04	0.809	136.3	11:51:39	01/03/1908
14	7.31E-03	7.61E-04	0.868	96.1	11:51:52	01/03/1908
15	5.54E-03	4.32E-04	0.821	108.4	11:52:00	01/03/1908
16	1.21E-02	7.58E-04	0.815	202.1	11:52:09	01/03/1908
average	1.093E-02	8.326E-04	0.807	155.750		
standard dev	5.769E-03	4.051E-04	0.043	53.466		

Notes:

RMS - Root Mean Square surface roughness in Angstrom,
 BSDF - Bidirectional scatter distribution function, it is equal to the scattered power per unit solid angle