

Bake out list

Item	Material	Maximum temperature [°C]	Comments
CF Cupper ring	Cupper	1084.62	Schmelzpunkt, Wikipedia
Mounting for the spacer	(Al ~ Alplan)	660.2	
Zerodur rods	Zerodur	600	Wikipedia
Heat shields	Aluminium [EN AW-5083]	660.2	<fc #ff0000>Temperatureinsatz (max. °C bei Dauer / Kurzzeiteinsatz): 120/ 180 </fc>
Window holder	Aluminium	660.2	
Vacuum chamber	Aluminium	660.2	
CF Flanschkit			
Glas balls	Borosilikatglas	500	maximale Arbeitstemperatur, Wikipedia
IGP		350	
Lead wire	Lead	327	
Teflon rings (Windows)	Teflon	327	Wikipedia
NTC Sensors		300	
Angle valve		< = 300	
Viton balls	Viton	280	Wikipedia
Sub-D Kabel 37FXRR-500	Kupferdraht versilbert Kaptonband-isoliert	230	
Vacuum pressure sensor		250 without electronics and magnet	
Gate valve		open: < = 250 (max 24h) closed: < = 200	
Sub-D Socket		230	
Sub-D Feedthrough	Peek	230	
Crimp pins	Cu vergoldet	230	
Capton wires	Kupferdraht versilbert Kaptonband-isoliert	230	
IGP cable		< 220	
Peltier-elements		200	

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Windows		200	Question: What is the maximum (continuous) temperature which the AR coatings are able to withstand? What is the maximum temperature gradient that can be applied (continuously) between the two faces of the 1/2" 3mm BK7 and fused silica windows? Response from Jeremy at Thorlabs: The maximum temperature will be around 200°C or so. We do not spec a maximum temperature gradient since it can depend on the thermal boundary conditions and geometrical boundary conditions of the window. However, I would recommend UVFS over N-BK7 because of its much lower coefficient of thermal coefficient.
Vacuum glue [Torrseal]		175	Flammpunkt
Indium wire	Indium	155	
Indium foil	Indium	155	
Vacuum pressure sensor cable			
CF-Kreuz			
Screws from the mounting and hield shield	Edelstahl A2		
ULE Spacer			
Mirrors			
ULE rings			
Faraday rotator			
Glue from faraday rotator			

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