



High Temperature DrySyn Precautions

Being manufactured from 6082-T651 Aluminium which has a melting point of 575°C DrySyn allows our customers perform chemistries at high temperatures above 400°C.

It is important that you perform your own risk assessment and consider the below properties and notes before sanctioning high temperature experimentation.

- 6082-T651 Aluminum will melt at above 575°C
- Borosilicate glass (Duran by Schott) will soften at 525°C, peak 'plate' temperatures of 500°C should be considered for brief periods only. Note that other glass manufacturers' formulations for Borosilicate could vary from Schott Glass.
- The standard DrySyn lifting handles which are supplied with every DrySyn base must be removed for 'plate' temperatures above 300°C
- Any oils or dirt not normally visible on the surface of DrySyn will burn onto the surface of the blocks causing decolourisation, we recommend that before high temp use the blocks are cleaned thoroughly and handles with clean cotton cloths to minimise this. Note that surface decolourisation will not affect the performance of safe use of DrySyn.
- The large temperature differential between the fume hood air and the glass can cause a fracture at high temperatures especially once over 200°C block temperatures, consideration should be made to cover the flask with aluminium foil or other suitable high temp insulation to reduce the potential for thermal shock.
- Needless to say that any retraction solvent used beyond its flash point can be a serious fire hazard.

Asynt Ltd

29 Hall Barn Road Industrial Estate, Isleham, Ely, Cambridgeshire, United Kingdom, CB7 5RJ
T: +44 (0)1638 781709 F: +44(0)1638 781706 enquiries@asynt.com www.asynt.com



Registered office: 29 Hall Barn Road Industrial Estate, Isleham, Ely, Cambridgeshire, United Kingdom, CB7 5RJ
Registration No: 5160407 VAT No: GB 838 5592 82