







<p>Date: 01.03.2021  Authorized user:  Lin Jin, Anna Ovvyan  Work area: Physics lab  Workplace: CeNTech I clean  room 00.17</p>	<h1>Safety Instruction</h1> <h2>Woollam M-2000 Ellipsometer</h2>	<p>WWU  Münster Nanofabrication  Facility (MNF)  Center for Nanotechnology  (CeNTech)  Heisenbergstr. 11  48149 Münster</p>
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Range of Application		
Ellipsometer Woollam M2000		
Hazard for People and the environment		
	<ul style="list-style-type: none"> <li>• Electrical hazard.</li> <li>• Damage to health from hazardous substances and hazardous waste (cleaning with organic solvents).</li> <li>• Risk of fire from flammable solvents and materials (cleaning with organic solvents).</li> <li>• Heavy components: danger of bruise and bone fractures or fatal injury.</li> <li>• Danger of injury due to moving parts of the devices.</li> </ul>	
Safety Measures and Rules of Behavior		
	<ul style="list-style-type: none"> <li>• <b>Only instructed Persons are allowed to work with the device.</b></li> <li>• A calibration on the device must be carried out before the first time working in a week.</li> <li>• It is exclusively the instrument managers' responsibility to calibrate the device, while the users' to contact managers in advance for a request.</li> <li>• Wear protective equipment (protective goggles, gloves, clothing) when cleaning with organic solvents.</li> <li>• Do not insert any objects into the device except sample for measurement.</li> <li>• In routine operation, the device must be turned on for at least 30 min for warm-up before operation.</li> <li>• Do not press hard at sample stage.</li> <li>• Remove all obstacles at sample stage before assembling in the focus probes.</li> </ul> <p>In case of any unclear issues contact the responsible person.</p> <p><b>WARNING! Do not look directly at light source.</b>  <b>WARNING! Do not press hard at sample stage.</b></p>	
Action in Failure		
<ul style="list-style-type: none"> <li>• In case of any malfunction or abnormality turn off the machine, secure against starting up and inform your direct supervisor and responsible persons.</li> </ul>		
Action in Accident, First Aid		
	<ul style="list-style-type: none"> <li>• Inform first aiders.</li> <li>• Immediately treat small injuries.</li> <li>• In case of severe injuries call emergency services (phone 112).</li> <li>• Inform your superior and instrument manager immediately.</li> <li>• Report accident.</li> </ul>	
Maintenance and Disposal		
<ul style="list-style-type: none"> <li>• Maintenance work is only allowed to be carried out by instrument managers and authorized persons.</li> <li>• Dispose of used materials and hazardous waste in an environmentally friendly manner.</li> </ul>		