

Technical protective equipment	Can be used for	Can <b>not</b> be used for
<b>Fume hood</b> without energy-saving function (Air velocity 0.5 m/s)	<ul style="list-style-type: none"> <li>✓ Open handling / pouring of hazardous-labeled or smelly chemicals</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.) - an <b>Acid fume hood</b> must be used (unless very small quantities)</li> <li>➤ Open handling of more than 3L flammable liquid, or closed handling of more than 1L flammable gas at 1 atm - an <b>EX fume hood</b> must be used – equals work in ATEX Type 3 area</li> <li>➤ Nanoparticles - fume hoods signed for nanoparticles must be used</li> <li>➤ Live biologically active material</li> </ul>
<b>Fume hood</b> with energy-saving function (Air velocity 0.3 m/s)	<ul style="list-style-type: none"> <li>✓ Open handling / pouring of hazardous-labeled or smelly chemicals</li> </ul>	<ul style="list-style-type: none"> <li>➤ Chemicals labeled with GHS06 (toxic) or GHS08 (the lung-sick man) – a <b>Fume hood</b> without energy-saving function must be used</li> <li>➤ Reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.) - an <b>Acid fume hood</b> must be used (unless very small quantities)</li> <li>➤ Open handling of more than 3L flammable liquid, or closed handling of more than 1L flammable gas at 1 atm - an <b>EX fume hood</b> must be used – equals work in ATEX Type 3 area</li> <li>➤ Nanoparticles - fume hoods signed for nanoparticles must be used</li> <li>➤ Live biologically active material</li> </ul>
<b>Fume hood</b> with HEPA filter, without energy-saving function (Air velocity 0.5 m/s)	<ul style="list-style-type: none"> <li>✓ Open handling / pouring of hazardous-labeled or smelly chemicals</li> <li>✓ Nanoparticles</li> <li>✓ Live biologically active material</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.) - an <b>Acid fume hood</b> must be used (unless very small quantities)</li> <li>➤ Open handling of more than 3L flammable liquid, or closed handling of more than 1L flammable gas at 1 atm - an <b>EX fume hood</b> must be used – equals work in ATEX Type 3 area</li> </ul>
<b>Acid fume hood</b> with water curtain and without energy-saving function (Air velocity 0.5 m/s)	<ul style="list-style-type: none"> <li>✓ Open handling / pouring of hazardous-labeled or smelly chemicals</li> <li>✓ Open handling / pouring of reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Open handling of more than 3L flammable liquid, or closed handling of more than 1L flammable gas at 1 atm - an <b>EX fume hood</b> must be used – equals work in ATEX Type 3 area</li> <li>➤ Nanoparticles - fume hoods signed for nanoparticles must be used</li> <li>➤ Live biologically active material</li> </ul>
<b>Acid fume hood</b> without water curtain and without energy-saving function (Air velocity 0.5 m/s)	<ul style="list-style-type: none"> <li>✓ Open handling / pouring of hazardous-labeled or smelly chemicals</li> <li>✓ Open handling / pouring of reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Handling of large amounts of reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.) or acids in concentrations greater than 50-70% - an <b>Acid fume hood</b> with water curtain must be used</li> <li>➤ Open handling of more than 3L flammable liquid, or closed handling of more than 1L flammable gas at 1 atm - an <b>EX fume hood</b> must be used – equals work in ATEX Type 3 area</li> <li>➤ Nanoparticles - fume hoods signed for nanoparticles must be used</li> <li>➤ Live biologically active material</li> </ul>
<b>Ex-Fume hood</b> without energy-saving function (Air velocity 0.5 m/s)	<ul style="list-style-type: none"> <li>✓ Open handling / pouring of hazardous-labeled or smelly chemicals</li> <li>✓ Open handling of up to 50L flammable liquid, or closed handling of more than 1L flammable gas at 1 atm, or work on heating liquids up to 10°C below the flash point (ATEX)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reactive or corrosive chemicals (e.g. hydrofluoric acid, perchloric acid, nitrohydrochlorid acid, sulfuric acid, hydrochloric acid etc.) - an <b>Acid fume hood</b> must be used (unless very small quantities)</li> <li>➤ Nanoparticles - fume hoods signed for nanoparticles must be used</li> <li>➤ Live biologically active material</li> </ul>
Ventilated hood (Air velocity 0.3 m/s)	<ul style="list-style-type: none"> <li>✓ Equipment and processes, where associated hazardous chemicals, in a closed system, can emit a small amount of diffuse harmful fumes or contaminants (i.e. by leakage) etc.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Open handling / pouring of hazardous-labeled chemicals - a <b>Fume Hood</b> must be used</li> <li>➤ Chemicals labeled with GHS06 (toxic) or GHS08 (the lung-sick man) - a <b>Fume Hood</b> must be used</li> <li>➤ Live biologically active material</li> </ul>
Local exhaust	<ul style="list-style-type: none"> <li>✓ Under preparation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Under preparation</li> </ul>
Cabinet for weighing off	<ul style="list-style-type: none"> <li>✓ Under preparation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Under preparation</li> </ul>
Chemical storage cabinets	<ul style="list-style-type: none"> <li>✓ Under preparation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Under preparation</li> </ul>
Walk-in fume hood	<ul style="list-style-type: none"> <li>✓ Under preparation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Under preparation</li> </ul>
Fume hood for isotopes	<ul style="list-style-type: none"> <li>✓ Under preparation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Under preparation</li> </ul>