

# DIN EN ISO 11111-2:2016-12 (E)

## Textile machinery - Safety requirements - Part 2: Spinning preparatory and spinning machines (ISO 11111-2:2005 + Amd 1:200 9 + Amd 2:2016)

---

<b>Contents</b>		<b>Page</b>
Introduction .....		8
1	Scope .....	9
2	Normative references .....	9
3	Terms and definitions .....	10
4	List of significant hazards .....	10
5	Significant hazards and corresponding safety requirements and/or measures .....	10
5.1	General .....	10
5.2	Opening, cleaning, blending machines .....	11
5.2.1	General .....	11
5.2.2	Automated blending bale openers .....	12
5.2.3	Teasers, willows .....	14
5.2.4	Bale breakers and hopper feeders .....	15
5.2.5	Moving bin emptiers .....	16
5.2.6	Bunker emptiers .....	17
5.3	Wool scouring (wool washing) machines .....	17
5.4	Baling machines .....	19
5.5	Carding machines .....	21
5.5.1	General .....	21
5.5.2	Flat cards .....	22
5.5.3	Roller and clearer cards .....	23
5.5.4	Tape condensers .....	24
5.6	Converters and stretch-breaking converters .....	25
5.7	Spinning preparation machines subsequent to carding .....	26
5.7.1	General .....	26
5.7.2	Draw frames for short fibres .....	28
5.7.3	Gill boxes, including "intersecting" and "chain-gill" types .....	28
5.7.4	Backwashers .....	29
5.7.5	Sliver and ribbon lap machines, lap formers .....	30
5.7.6	Cotton combers .....	30
5.7.7	Rectilinear combs (for worsted yarn and flax yarn and similar) .....	30
5.7.8	Speedframes .....	31
5.7.9	High draft finishers .....	32
5.7.10	Automatic sliver can-doffing units .....	33
5.8	Spinning machines .....	34
5.8.1	General .....	34
5.8.2	Ring spinning machines .....	35
5.8.3	Open-end spinning machines .....	35
5.8.4	Gill spinning machines .....	36
6	Verification of the safety requirements and/or measures .....	36
7	Information concerning machine use .....	36
Annex ZA (informative) #Relationship between this International Standard and the Essential Requirements of EU Directive 2006/42/EC .....		37

<b>Annex ZB (informative) Relationship between this International Standard and the Essential Requirements of EU Directive 2006/42/EC .....</b>	<b>38</b>
<b>Bibliography .....</b>	<b>39</b>