

# DIN EN 16256-3:2013-03 (E)

## Pyrotechnic articles - Theatrical pyrotechnic articles - Part 3: Requirements for construction and performance

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	5
4	Construction .....	5
4.1	General requirements (type test and batch test) .....	5
4.2	Permitted elements for combinations T1 indoor use (type test) .....	6
4.3	Length of uncoated end of Bengal sticks (type test and batch test) .....	6
4.4	Materials not permitted for T1 Maroons (type test and batch test) .....	7
5	Pyrotechnic composition (type test) .....	7
6	Means of ignition (type test and batch test) .....	10
6.1	General requirements .....	10
6.2	Initial fuses and electric igniters .....	10
6.3	Friction heads .....	10
6.4	Permitted means of ignition for theatrical pyrotechnic articles T1 .....	10
7	Performance .....	12
7.1	Properties to be checked before functioning tests .....	12
7.1.1	Loose pyrotechnic composition after mechanical conditioning (type test) .....	12
7.1.2	Integrity (type test and batch test) .....	12
7.2	Properties to be checked during functioning tests (type test and batch test) .....	12
7.2.1	Principal effects .....	12
7.2.2	Functioning .....	12
7.2.3	Stability during functioning .....	12
7.2.4	Effect dimensions .....	13
7.2.5	Sound pressure level .....	14
7.2.6	Explosions and other failures .....	14
7.2.7	Burning or incandescent matter .....	14
7.2.8	Extinguishing of flames .....	14
7.2.9	Projected debris .....	15
7.2.10	Burning rate of pyrotechnic composition .....	15
7.3	Integrity to be checked after functioning tests (type test and batch test) .....	15
7.4	Minimum safety distances for theatrical pyrotechnic articles T1 (type test) .....	15
8	Primary pack or selection pack (type test and batch test) .....	16
9	Type testing .....	16
9.1	General .....	16
9.2	Number of items to be tested .....	17
9.3	Additional requirements for primary packs .....	17
9.3.1	Thermal and mechanical conditioning .....	17
9.3.2	Labelling .....	17
9.4	Test report .....	17
10	Batch testing .....	18

10.1	General .....	18
10.2	Sampling plans .....	18
10.3	Unit of product .....	18
10.4	Nonconformities .....	19
10.5	Test report .....	20
10.6	Acceptance or rejection of a batch .....	21
10.6.1	Nonconforming units .....	21
10.6.2	Critical nonconforming units .....	21
10.6.3	Major nonconforming units .....	21
10.6.4	Minor nonconforming units .....	21
10.6.5	Theatrical pyrotechnic articles supplied in primary packs or selection packs .....	21
Annex A (informative) Overview of essential safety requirements and corresponding clauses of all parts of this European Standard .....		22
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2007/23/EC on the placing on the market of pyrotechnic articles .....		23
Bibliography .....		25