

Tests on high explosives

**TÜV Rheinland InterCert
Budapest, Hungary
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No.	EN	Facilities available	Equipment available (list the available equipment)	Know how available	Additional equipment needed	Additional know how needed	Recommendation
1	13630-1:2004	Yes	don't needed	Yes	No	No	–
2	13630-2:2003	Yes	heat chambers 273K - 355 K	Yes	No	No	–
3	13630-3:2003	Yes	BAM friction machine	Yes	No	No	–
4	13630-4:2003	Yes	BAM fall-hammer	Yes	No	No	–
5	13630-5:2004	Yes	fret machine with digit.watch conditioning chambers 240K - 355 K	Yes	No	No	–
6	13630-6:2003	Yes	tensile machine conditioning chambers 240K - 355 K	Yes	No	No	–
7	13630-7:2003	Yes	Al witness plates "A" and "B" detonators	Yes	No	No	–
8	13630-8:2003	Yes	water tank and weights	Yes	No	No	–
9	13630-9:2004	Yes	Al or wood witness plates measuring equipment for velocity of detonation	Yes	No	No	–
10	13630-10:2004	Yes	Al or steel witness plates	Yes	No	No	–
11	13630-11:2003	Yes	measuring equipment for velocity of detonation	Yes	No	No	–
12	13630-12:2003	Yes	stopwatch	Yes	No	No	–
13	13631-1:2005	Yes	don't needed	Yes	No	No	–

1	2	3	4	5	6	7	8
14	13631-2:2003	Yes	heat chambers 273K - 355 K glass tubes thermometers balance	Yes	No	No	-
15	13631-3:2005	Yes	BAM friction machine	Yes	No	No	-
16	13631-4:2003	Yes	BAM fall-hammer	Yes	No	No	-
17	13631-5:2003	Yes	V shape trough water tank	Yes	No	No	-
18	13631-6:2003	Yes	blasting tubes thermometer pressure (7 bar) holder syst.	Yes	No	No	-
19	13631-7:2004	Yes	conditioning chambers 230K - 425K	Yes		No	-
20	13631-10:2004	Yes	ISO 4002 -1991 steel tubes measuring equipment for velocity of detonation	Yes	No	No	-
21	13631-11:2004	Yes	ISO 4002 -1991 steel tubes measuring equipment for velocity of detonation	Yes	No	No	-
22	13631-12:2005	Yes	don't needed	Yes	No	No	-
23	13631-13:2003	Yes	thermometer vessel balance measure barrel	Yes	No	No	-
24	13631-14:2003	Yes	ISO 4002 -1991 steel tubes thermometer measuring equipment for velocity of detonation	Yes	No	No	-
25	13631-15:2005	Yes	don't needed	Yes	No	No	-
26	13631-16:2005	Yes / outsource	Yes / outsource	Yes	No	No	-
27	13763-1:2004	Yes	don't needed	Yes	No	No	-
28	13763-2:2003	Yes	conditioning chambers 230K - 425K	Yes	No	No	-

1	2	3	4	5	6	7	8
29	13763-3:2003	Yes	BAM fall-hammer	Yes	No	No	–
30	13763-7:2004	Yes	test app. weight 4kg, 10kg	Yes	No	No	–
31	13763-8:2004	Yes	sake machine 50Hz A=0-0,25mm	Yes	No	No	–
32	13763-11:2004	Yes	5m steel fall-tube with steel plate	Yes	No	No	–
33	13763-12:2004	Yes	pressure vessel water tank pressure (3 bar) holder syst.	Yes		No	–
34	13763-15:2005	Yes	pressure sensor(s) positioning system water tank	Yes	No	No	–
35	13763-18:2004	Yes	square pulse current supply	Yes	No	No	–
36	13763-20:2004	Yes	Ohmmeter	Yes	No	No	–
37	13763-23:2003	Yes	measuring equipment for velocity of detonation conditioning chamber	Yes	No	No	–
38	13857-1:2004	Yes	don't needed	Yes	No	No	–
39	13857-3:2003	Yes	don't needed	Yes	No	No	–
40	13938-1:2005	Yes	don't needed	Yes	No	No	–
41	13938-3:2003	Yes	ISO 334 seamless steel tube lead witness plate(s) inert rod	Yes	No	No	–
42	13938-4:2004	Yes	trough hot wire stopwatch	Yes	No	No	–
43	13938-7:2005	Yes	Yes (all equipment listed earlier)	Yes	No	No	–