

CTX BALL GRENADE

Description

The CTX Ball Grenade combines sound and flash function with extremely effective payload deployment for both operational and training uses.

With a selection of payload options available, the device can be tailored to meet numerous end user requirements.

The Ball Grenade casing is manufactured from a unique flexible biodegradable material, and has been designed specifically for the requirements of various UK Police Tactical Firearms Units and Military users.

Operation

The CTX Ball Grenade features the three-stage safety, fly off lever mechanism, common in all our products with this method of initiation.

The device is held in the normal manner and pressure is applied upwards to release the ring pull system. Once released, the pin can then be twisted and is withdrawn in the normal manner.

As soon as the grenade leaves the hand, the fly-off-lever is released, allowing the hammer arm to function. The hammer in turn initiates the primer cap, functioning the grenade via the internal delay fuse element.

Application:

- Dynamic/Tactical Entry Training
- Single System Search Training
- T66 Training Scenarios
- Public Order/Riot Situations

LENGTH:	85mm
DIAMETER:	68mm
SOUND LEVEL:	TRAINING - 150dB C @ 2m OPERATIONAL - 165dB C @ 2m
DELAY:	1 sec, 1.5 sec
WEIGHT:	148grams



References:

UN Number: 0431

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes

PRODUCT CODE	DESCRIPTION	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
06011506A	Ball Grenade 1.5s No Fill	30	UN Fibre board	1.4G	6.5 kg
06011507A	Ball Grenade 1.5s Paint Foam Marker	30	UN Fibre board	1.4G	6.5 kg
06011507B	Ball Grenade 1.5s Paint Foam Marker (MOD H83 Pack)	5	H83 Steel box	1.4G	3.8 kg
06011509A	Ball Grenade 1.5s Stinger Balls	30	UN Fibre board	1.4G	6.5 kg
06011510A	Ball Grenade 1.5s Irritant Practice	30	UN Fibre board	1.4G	6.5 kg
06011511A	Ball Grenade 1.5s Irritant Operational	30	UN Fibre board	1.4G	6.5kg



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CTX IRRITANT DISPERSAL GRENADE – FLAMELESS EXPULSION

Description

The CTX Irritant Dispersal Grenade with Flameless Expulsion is designed specifically to deploy sensory irritant material without the risk of fire. The body comprises of an extruded aluminium casing and proprietary fly off lever mechanism. The sensory irritant composition is emitted via a single exhaust port in the base of the unit. The unit is available in 40 or 50mm diameter, making it ideal for both indoor close quarter and outdoor exposed conditions.

Operation

The CTX Irritant Dispersal Grenade features the same three stage safety ring pull mechanism as is used on the Operational Multi Burst devices.

The device is held in the normal manner and pressure is applied upwards to release the ring pull system. Once released, the pin can then be twisted and is withdrawn in the normal manner.

As soon as the grenade leaves the hand, the fly-off-lever is released, allowing the hammer arm to function. The hammer in turn initiates the primer cap, functioning the grenade via the internal delay fuse element which in turn deploys the irritant.

Application:

For use in various Military and Law Enforcement Operational scenarios such as:

- Hostage Rescue
- Dynamic/Tactical Entry Training
- Public Order/Riot Scenarios

LENGTH:	124mm
DIAMETER:	40mm, 50mm
DELAY:	0.5sec, 1.0sec
WEIGHT: 40mm	170grams
50mm	225grams



References:

UN Number: 0432

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes

PRODUCT CODE	DESCRIPTION	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
07000010A	Flameless Irritant Expulsion Grenade Practice	30	UN Fibre board	1.4S	7.1kg
07000011A	Flameless Irritant Expulsion Grenade Operational	30	UN Fibre board	1.4S	7.1kg
07000010B	Flameless Irritant Expulsion Grenade Practice – Large	30	UN Fibre board	1.4S	7.1kg
00700011B	Flameless Irritant Expulsion Grenade Operational - Large	30	UN Fibre board	1.4S	7.1kg

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CTX MULTI BURST DISTRACTION DEVICE

Description

The CTX Multi Burst Distraction Device range are Noise Flash Distraction Devices, designed for indoor or outdoor use by Law Enforcement Agencies and Special Forces during dynamic entry situations and hostage release scenarios.

Significant Noise, Blast and Light output levels are produced to induce disorientation in any person within the effective range.

On activation the device delivers 6 or 9 reports and during function presents no fragmentation or projectile concerns. In order to minimise obscuration, once initiated the device offers a significantly reduced smoke signature and also has limited movement on function.

Operation

The Multi Burst Distraction Devices incorporate a unique three-stage safety ring pull mechanism. The device is held in the normal manner and pressure is applied upwards to release the ring pull system. Once released the pin is then twisted and is withdrawn in the normal manner. As soon as the grenade leaves the hand, the fly-off-lever is released, allowing the hammer arm to function. The hammer in turn initiates the primer cap, functioning the grenade via the two stage internal delay fuse element, utilising Top and Base Venting (TBV) to ensure safe user handling.

Application:

- Dynamic/Tactical Entry
- Various Hijack/Hostage Recovery Situations
- Anti-terrorist Operations

UN Number: 0432

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes



SPECIFICATIONS	6 BANG	9 BANG
OVERALL LENGTH:	110 mm	110 mm
DIAMETER:	40 mm	42 mm
WEIGHT:	275 grams	350 grams
VENTING:	Top & Base	Top & Base
SOUND LEVEL AT 2M:	168 dB C	170 dB C
FLASH OUTPUT:	3 million + cd	3 million + cd
FUSE OPTIONS	0.5, 1.0 sec	0.5, 1.0 sec
OVERALL COVER	2.5 sec	2.5 sec
FUNCTION RANGE:	-46 °c to +71 °c	-46 °c to +71 °c
DIVING DEPTH:	20 metres	20 metres

PRODUCT CODE	DISC	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
01060501B	6 Bang 0.5s Operational	25	UN Fibre board	1.4S	11kg
01060502B	6 Bang 0.5s Practice	25	UN Fibre board	1.4S	11kg
01061001B	6 Bang 1.0s Operational	25	UN Fibre board	1.4S	11kg
01061002B	6 Bang 1.0s Practice	25	UN Fibre board	1.4S	11kg
01090501B	9 Bang 0.5s Operational	25	UN Fibre board	1.4S	12.9kg
01090502B	9 Bang 0.5s Practice	25	UN Fibre board	1.4S	12.9kg
01091001B	9 Bang 1.0s Operational	25	UN Fibre board	1.4S	12.9kg
01091002B	9 Bang 1.0s Practice	25	UN Fibre board	1.4S	12.9kg

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CTX OPPOSED ENTRY GRENADE

Description

The CTX-1-C Single Bang Grenade is a powerful CTX Opposed Entry Grenade designed for use where traditional units simply may not be sufficient for the situation. The device is deployed during Law Enforcement and Special Forces operations where an immediate and extreme level of compliance is required from a target.

Extreme noise, blast pressure and light output levels induce a debilitating effect on any person within the effective range, however the devices present no fragmentation or projectile concerns.

In order to minimise obscuration on function the unit offers a significantly reduced smoke signature and also has limited movement on function.

Operation

The CTX-1-C incorporates a unique three-stage safety ring pull mechanism. The device is held in the normal manner and pressure is applied upwards to release the ring pull system. Once released the pin is then twisted and is withdrawn in the normal manner. As soon as the grenade leaves the hand, the fly-off-lever is released, allowing the hammer arm to function. The hammer in turn initiates the primer, functioning the grenade via the internal delay fuse element, utilising Top and Base venting (TBV) for safer user handling.

Application:

- Opposed Entry/CT Operations
- Dynamic/Tactical Entry
- Various Hijack/Hostage Recovery Situations



References:

Product Codes

- 01010513A Opposed Entry Grenade
0.5s Operational
- 01011013A Opposed Entry Grenade
1.0s Operational

UN Number: 0432

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes

PRODUCT	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
01010513A	25	UN Fibre board	1.4S	9.3kg
01011013A	25	UN Fibre board	1.4S	10.1kg

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CTX SCREENING SMOKE HAND GRENADE

Description

The CTX Screening Smoke Device is designed to produce a dense curtain of smoke to mask the removal or deployment of personnel in tactical and training situations. The body comprises of an extruded aluminium casing and proprietary fly off lever mechanism. The smoke composition is emitted via an exhaust port in the base of the unit.

Operation

The CTX Screening Smoke Device features the same three-stage safety ring pull mechanism as is used on the Operational Multi Burst devices. The device is held in the normal manner and pressure is applied upwards to release the ring pull system.

Once released, the pin can then be twisted and is withdrawn in the normal manner. As soon as the grenade leaves the hand, the fly-off-lever is released, allowing the hammer arm to function. The hammer in turn initiates the primer cap, functioning the grenade via the internal delay fuse element.

Application:

For use in various military and Law Enforcement operational and training scenarios such as:

- Rapid concealment of personnel and assets
- Reducing the accuracy of enemy fire
- Close protection contingency for the removal of VIP(s)
- Cover for the deployment or redeployment of personnel

LENGTH:	124mm
DIAMETER:	40mm
BURN TIME:	50secs
SMOKE COLOUR:	White
DELAY OPTIONS:	0.5sec, 1.0sec



References:

Product Codes

- 03000003A White Screening Smoke 45secs

UN Number: 0432

Proper Shipping Name: Articles Pyrotechnic
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PRODUCT CODE	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
03000003A	30	UN Fibre board	1.4S	7.100kg

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CTX SINGLE BURST RELOADABLE DISTRACTION DEVICE

Description

The CTX Single Burst Reloadable Training Device comprises of a consumable sound/flash unit with fly off lever mechanism and high grade aluminium reusable blue training body which is identical in shape and size to the Multi Burst Distraction Device(s).

The training body and sound/flash units supplied are a cost effective means for users to obtain and retain the skills associated with the deployment and use of Noise Flash Distraction Devices.

Operation

The sound/flash unit complete with Fly off Lever Mechanism is screwed into the training body with no tools required. The Single Burst sound/flash unit features the same three-stage safety ring pull mechanism that is used on the CTX Operational Multi Burst devices, ensuring continuity through training and operational deployment. The device is held in the normal manner and pressure is applied upwards to release the ring pull system. Once released the pin is then twisted and is withdrawn in the normal manner. As soon as the grenade leaves the hand, the fly-off-lever is released, allowing the hammer arm to function. The hammer in turn initiates the primer cap, functioning the grenade via the internal delay fuse element.

Application:

- Dynamic Entry Training
- ARV Intervention/Entry Training

OVERALL LENGTH:	110mm
BODY LENGTH:	80mm
DIAMETER:	40mm
DELAY OPTIONS:	0.5sec, 1.0sec.



References:

UN Number: 0432

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes

PRODUCT CODE	DESCRIPTION	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
02010502A	Single Bang Reload 0.5s Practice Payload	70	Fibre board	1.4S	8.0kg
02010501A	Single Bang Reload 0.5s Operational Payload	70	Fibre board	1.4S	8.0kg
02011002A	Single Bang Reload 1.0s Practice Payload	70	Fibre board	1.4S	8.0kg
02011001A	Single Bang Reload 1.0s Operational Payload	70	Fibre board	1.4S	8.0kg
02000014B	Single Bang Reload Body Only - Colour Practice Blue	45	Fibre board	INERT	INERT
02000015B	Single Bang Reload Body Only - Colour Black	45	Fibre board	INERT	INERT

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CTX THUNDERFLASH & MAROON RANGE

Description

The CTX Thunderflashes are for use as a training device to provide realistic simulation. This hand thrown device is an ideal training enhancement in many situations.

The CTX Maroons have similar applications except for being electrically initiated, making it ideal for pre-planned exercises and training exercises where remote firing is required. Initiation is instantaneous.

Operation

Thunderflash

1. Hold device in throwing hand
2. Remove striker top cap to expose delay
3. Draw striker top cap firmly across delay
4. Immediately deploy the device
5. After a nominal 5 second delay, device functions with a loud report and bright flash

Maroon

1. Strip back exposed igniter wires
2. Connect wires to an appropriate command wire/control unit/firing box
3. Retire to safe distance and activate as required
4. Device functions with zero delay. Device functions with a loud report and bright flash

Application:

- Explosion Simulators
- Public Order/Riot Training Scenarios
- General Training/Distracton use

	THUNDERFLASH	MAROON
LENGTH:	195mm	80mm
DIAMETER:	28mm	18mm



Characteristics

- A very loud report, approx 168dB C at 10m (Mk9)
- No harmful fragmentation. Unique flexible Biodegradable construction
- Minimum suggested safety distance 10m

References:

Product Codes

- 04015004B Thunderflash Mk7
- 04015005B Thunderflash Mk9
- 05010004B Command Initiated Maroon Mk7
- 05010005B Command Initiated Maroon Mk9

UN Number: 0431

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes

PRODUCT	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
04015004B	20	UN Fibre board	1.4G	2.250kg
04015005B	20	UN Fibre board	1.4G	2.276kg
05010004B	20	UN Fibre board	1.4G	2.225kg
05010005B	20	UN Fibre board	1.4G	2.250kg

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Description

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The CTX Maroons have similar applications except for being electrically initiated, making it ideal for pre-planned exercises and training exercises where remote firing is required. Initiation is instantaneous.

Operation

Thunderflash

1. Hold device in throwing hand
2. Remove striker top cap to expose delay
3. Draw striker top cap firmly across delay
4. Immediately deploy the device
5. After a nominal 5 second delay, device functions with a loud report and bright flash

Maroon

1. Strip back exposed igniter wires
2. Connect wires to an appropriate command wire/control unit/firing box
3. Retire to safe distance and activate as required
4. Device functions with zero delay. Device functions with a loud report and bright flash

Application:

- Explosion Simulators
- Public Order/Riot Training Scenarios
- General Training/Distracton use

	THUNDERFLASH	MAROON
LENGTH:	195mm	80mm
DIAMETER:	28mm	18mm



Characteristics

- A very loud report, approx 168dB C at 10m (Mk9)
- No harmful fragmentation. Unique flexible Biodegradable construction
- Minimum suggested safety distance 10m

References:

Product Codes

- 04015004B Thunderflash Mk7
- 04015005B Thunderflash Mk9
- 05010004B Command Initiated Maroon Mk7
- 05010005B Command Initiated Maroon Mk9

UN Number: 0431

Proper Shipping Name: Articles Pyrotechnic
for Technical Purposes

PRODUCT	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
04015004B	20	UN Fibre board	1.4G	2.250kg
04015005B	20	UN Fibre board	1.4G	2.276kg
05010004B	20	UN Fibre board	1.4G	2.225kg
05010005B	20	UN Fibre board	1.4G	2.250kg

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CTX THUNDERFLASH MTG GRENADE

Description

The CTX Thunderflash MTG are for use as a training device to provide realistic simulation. This hand thrown device is an ideal training simulator in many situations. Ideal for indoor training CQB scenarios

Characteristics

- Loud report, approx. 150dB C at 2m
- Minimum suggested safety distance 2m
- No harmful fragmentation (cardboard components)
- Striker attached

Operation

1. Hold device in throwing hand
2. Remove striker top cap to expose Delay
3. Draw striker top cap firmly across Delay
4. Immediately deploy the Device
5. After a nominal 3.0 second delay, Device functions with a Loud Report and Bright Flash

Application:

- Indoor training - CQB
- Public Order/Riot Training Scenarios
- General Training/Distracton use



References:

Product Codes

- 04013016A Thunderflash MTG

UN Number: 0431

Proper Shipping Name: Articles Pyrotechnic for Technical Purposes

LENGTH:	125mm
DIAMETER:	55mm
WEIGHT:	65 grams

PRODUCT	BOX QTY	BOX TYPE	HAZARD CLASS	GROSS WEIGHT
04013016A	30	UN Fibre board	1.4G	2.250kg

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Drill 85

Perfect tool for classroom training

Exactly corresponds in shape and handling to the Fragmentation, Offensive and Traning Explosive hand grenades



Application

The fuse head with the safety ring and safety clip, the safety lever and the ignition piece illustrate the mechanics of the preparation for throwing as well as the actual throw perfectly.

The Drill Hand Grenade is completely inert and suitable for initial training to practice handling, as well as for teaching in the classroom.

Drill 85	
use	handling, class room teaching
body	aluminium - alloy
weight	400 g (incl. safety clip)
dimensions	diameter 64 mm
	hight 97 mm

Packaging	
packaging size	8 units/M2A1
hazard class	inert

Technical specification and numerical data are given as an indication only and are of no contractual nature.
03.2012

EOHG 85 Enhanced Offensive

Highest blast effect ensures effectiveness where fragments cannot reach

Battlefield proven multilevel safety features ensure total trust

Realistic, safe and cost effective solutions allow soldiers to train as they fight



Application

There are situations in which a hand grenade doesn't need to produce fragments, but a lot of blast!

The Enhanced Offensive Hand Grenade has been developed for this purpose.

It features an aluminium body which produces hardly any fragments but holds a very large quantity of explosive.

The EOHG 85 is developed for special missions in which an enhanced power is needed but fragments are not suitable. It has the same size and texture as the well known HG 85 Fragmentation.

EOHG 85 Enhanced Offensive

use	offensive close quarters battle
body	aluminium - alloy
fragments	very little
weight	465 g (incl. safety clip)
dimensions	diameter 64 mm
	height 128 mm
explosive	weight 300 g
	RDX/TNT 60/40
fuse	DM82A4 CH

Packaging

packaging size	5 units/M2A1
hazard class	1.1 D

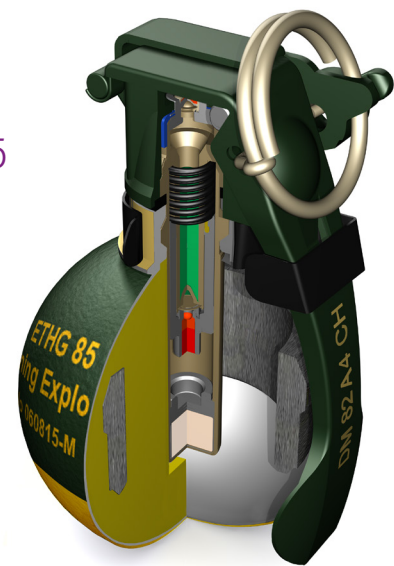
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ETHG 85 Training Explosive

Minimal fragmentation and reduced explosives ensure trainee safety

Identical physical characteristics as the HG 85 provide the most realistic training experience

The hazardous goods classification of 1.2D provides flexibility in logistics and reduces handling costs



Application

Being a training version, the Explosive Training Hand Grenade is manufactured with an aluminium sphere rather than one of steel and is filled with RDX/TNT.

The result is a substantially reduced weight compensated for by a metal ring installed in the explosive.

The ring consists of sintered iron powder. This weight compensation mass decomposes into fine iron powder on detonation, i. e. very few fragments are produced.

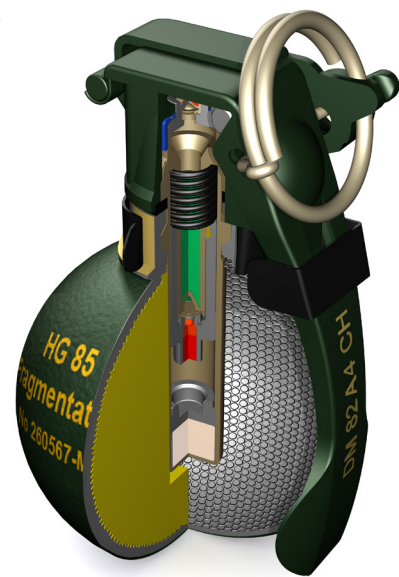
Therefore it poses low risk to the soldier.

ETHG 85 Training Explosive	
use	realistic training or close quarters battle
body	aluminium - alloy
fragments	very little
weight	465 g (incl. safety clip)
dimensions	diameter 64 mm
	hight 97 mm
explosive	weight 125 g
	RDX/TNT 60/40
fuse	DM82A4 CH
Packaging	
packaging size	8 units/M2A1
hazard class	1.2 D
UN number	0285

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03.2012

HG 85 Fragmentation

- Maximises soldier survivability by providing an unmatched lethal fragmentation zone
- Battlefield proven multilevel safety features ensure total trust
- Realistic, safe and cost effective solutions allow soldiers to train as they fight



Application

The spherical shape of the body ensures an equal distribution of the fragments in almost all directions. The enormous acceleration coupled with the irregular and sharp-edged shape of the fragments result in a very high lethality within the first meters of the detonation.

From then on, the fragments lose much of their energy, so that from a distance of approx. 20 m it is relatively safe.

This is the only Fragmentation Hand Grenade where the hazard class 1.2D has been assigned, which provides flexibility in logistics and reduces handling costs.

HG 85 Fragmentation	
use	defensive close quarters battle
body	steel, prefragmented
fragments	approx. 2 000, weighing 0.1 g
weight	470 g (incl. safety clip)
dimensions	diameter 64 mm
	hight 97 mm
explosive	weight 165 g
	RDX/TNT 60/40
fuse	DM82A4 CH

Packaging	
packaging size	8 units/M2A1
hazard class	1.2 D
UN number	0285

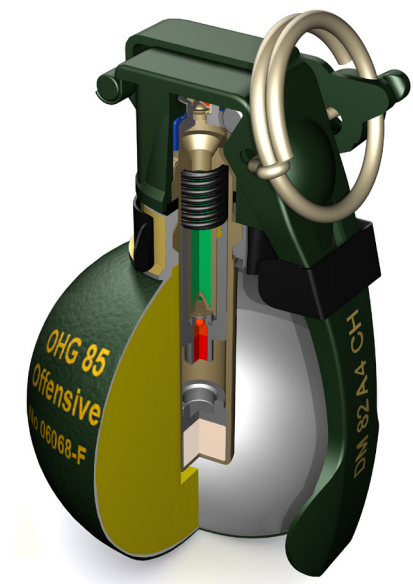
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03.2012

OHG 85 Offensive

Higher shock effect with minimum fragmentation provides a greater offensive mission success rate

Battlefield proven multilevel safety features ensure total trust

The hazardous goods classification of 1.2D provides flexibility in logistics and reduces handling costs



Application

There are situations in which a hand grenade doesn't need to produce fragments, but a lot of blast! The Offensive Hand Grenade has been developed for this purpose.

It features an aluminium body which produces hardly any fragments but holds a very large quantity of explosive.

It produces very few fragments in order not to endanger the person throwing the grenade.

The offensive hand grenade has the same size and texture as the well known HG 85 Fragmentation.

HG 85 Offensive

use	offensive close quarters battle
body	aluminium - alloy
fragments	very little
weight	310 g (incl. safety clip)
dimensions	diameter 64 mm
	hight 97 mm
explosive	weight 165 g
	RDX/TNT 60/40
fuse	DM82A4 CH

Packaging

packaging size	8 units/M2A1
hazard class	1.2 D
UN number	0285

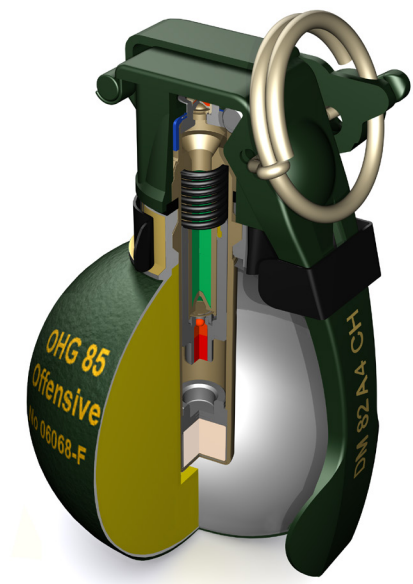
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OHG 85 Offensive

Higher shock effect with minimum fragmentation provides a greater offensive mission success rate

Battlefield proven multilevel safety features ensure total trust

The hazardous goods classification of 1.2D provides flexibility in logistics and reduces handling costs



Application

There are situations in which a hand grenade doesn't need to produce fragments, but a lot of blast! The Offensive Hand Grenade has been developed for this purpose.

It features an aluminium body which produces hardly any fragments but holds a very large quantity of explosive.

It produces very few fragments in order not to endanger the person throwing the grenade.

The offensive hand grenade has the same size and texture as the well known HG 85 Fragmentation.

HG 85 Offensive

use	offensive close quarters battle
body	aluminium - alloy
fragments	very little
weight	310 g (incl. safety clip)
dimensions	diameter 64 mm
	hight 97 mm
explosive	weight 165 g
	RDX/TNT 60/40
fuse	DM82A4 CH

Packaging

packaging size	8 units/M2A1
hazard class	1.2 D
UN number	0285

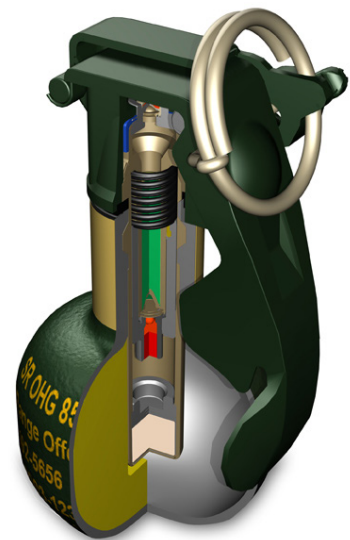
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03.2012

SR OHG 85 Short Range Offensive

Controlled shock effect with minimum fragmentation provides the perfectly balanced offensive tool

Battlefield proven multilevel safety features ensure total trust

The hazardous goods classification of 1.2D provides flexibility in logistics and reduces handling costs



Application

There are situations in which a hand grenade doesn't need to produce fragments, but a blast!

The extremely compact and lightweight Short Range Offensive Hand Grenade has been developed for this purpose.

It produces very few fragments in order not to endanger the person throwing the grenade.

SR OHG 85 Short Range Offensive	
use	offensive close quarters battle
body	aluminium - alloy
fragments	very little
weight	195 g (incl. safety clip)
dimensions	diameter 49 mm
	height 95 mm
explosive	weight 85 g
	RDX/TNT 60/40
fuse	DM82A4 CH

Packaging	
packaging size	8 units/M2A1
hazard class	1.2 D
UN number	0285

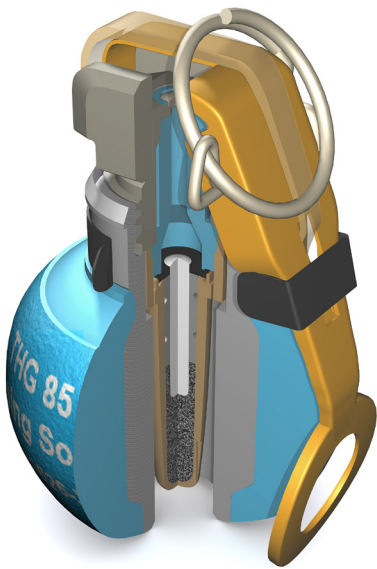
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10.2013

THG 85 Training Sound

Similar physical characteristics as the HG 85 provide a realistic training experience

Durable components and a unique design extend the useful life and significantly reduce training costs

A variety of fuse options for battlefield simulation or hearing protection



Application

Prior to throwing, the Training Fuse is inserted in the basic body of the Training Hand Grenade and the fuse head is screwed in place.

A larger thread than that used in the live grenades ensures that no live fuse is screwed-in by mistake.

A plastic bracket connects the safety lever with the body and prevents the lever being lost on throwing.

After the Practice Hand Grenade is thrown, the practice fuse causes only a loud bang, however the time delay corresponds to the delay on live grenades.



THG 85 Training Sound

use	second level practice
body	rubber, steel
weight	460 g (incl. safety clip)
dimensions	diameter 64 mm
	hight 97 mm

Packaging

packaging size	8 units/M2A1
hazard class	inert

Training Fuse

fuse-types	training fuse 110 dB 4.0" (green-black)
	training fuse 115 dB 4.0" (blue-brown)
	training fuse 115 dB 2.5" (yellow-black)
hazard class	1.4 S

Technical specification and numerical data are given as an indication only and are of no contractual nature.
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