



RIOT GRENADES

RIOT CONTROL GRENADES

	38mm Tear Gas Shell Gun fired & Hand Throw	38mm Color Smoke Shell Gun fired & Hand Throw	38mm Smoke Tear Gas Shell Gun fired
Caliber	38mm	38mm	38mm
Total Length	<=122.5mm	<=122.5mm	<=122.5mm
Total weight	<=148g	<=148g	<=135g
Max Range	>=110m Traditional gun) >=220m (Rifling Gun)	>=110m Traditional gun) >=220m (Rifling Gun)	>=120m Traditional gun) >=220m (Rifling Gun)
Hand throw delay time	2s – 3s	2s – 3s	2s – 3s
Ground Dispersion at max range	N/A	N/A	Ex*Ez <=8mx6m
Chemical casualty area	N/A	N/A	300m ²
Delay time	N/A	N/A	1.5s +/- 0.5s
Gas emission time	<=20s	<=20s	<=20s
Applicable temperature	-30°C – 45°C	-30°C – 45°C	-30°C – 45°C
Storage time	>=5 years	>=5 years	>=5 years
Chemical Casualty Area	150m ²	N/A	N/A
Package	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221mm	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221mm	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221mm



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	38mm Explosive Tear Gas Grenade	38mm Gun fired Color Smoke Shell	38mm Gun Fired Rubber Ball Shell 21 Rubbers
Caliber	38mm	38mm	38mm
Total Length	$\leq 122.5\text{mm}$	$\leq 122.5\text{mm}$	$\leq 122.5\text{mm}$
Total weight	$\leq 135\text{g}$	$\leq 135\text{g}$	$\leq 110\text{g}$
Max Range	$\geq 120\text{m}$	$\geq 120\text{m}$	5m – 30m
Power	N/A	N/A	5m E Kinetic Energy $\leq 27\text{J}$ E than Kinetic Energy $\leq 10\text{J}/\text{Cm}^2$ E Kinetic Energy $\leq 4\text{J}$ E than Kinetic Energy $\leq 0.5\text{J}/\text{Cm}^2$
Ammunition type	N/A	Colored Smoke Agent	N/A
Ground Dispersion at max range	$\text{Ex}^*\text{Ez} \leq 8\text{m} \times 6\text{m}$	$\text{Ex}^*\text{Ez} \leq 8\text{m} \times 6\text{m}$	N/A
Chemical casualty area	300m ²	N/A	N/A
Delay time	N/A	1.5s +/- 0.5s	N/A
Gas emission time	N/A	$\leq 20\text{s}$	N/A
Applicable temperature	-30°C – 45°C	-30°C – 45°C	-30°C – 45°C
Storage time	≥ 5 years	≥ 5 years	≥ 5 years
Chemical Casualty Area	N/A	N/A	N/A
Package	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221m	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221m	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221mm



RIOT CONTROL GRENADES

	38mm Multi Projective Smoke Tear Gas Shell	38mm Explosion Stunning Shell	48mm Hand Throw Smoke Shell
Caliber	38mm	38mm	48mm (Case material Aluminum & Plastic)
Total Length	$\leq 160\text{mm}$	$\leq 122.5\text{mm}$	96 \pm 1mm / 91 \pm 1mm
Total weight	$\leq 175\text{g}$	$\leq 170\text{g}$	20 \pm 5g / 130 \pm 5g
Max Range	40m – 80m	$\geq 130\text{m}$	$\geq 100\text{m}$
Single smoke emission time	$\leq 20\text{s}$ (Normal temperature)	N/A	15-30sec
Projectile number	3	N/A	N/A
Power	N/A	Sound Level 150DB – 170dB at 5m	N/A
Flash Intensity	N/A	1.5x10 ⁷ cd to 3.5x10 ⁷ cd	N/A
Safety radius	N/A	$\leq 0.5\text{m}$	N/A
Ground Dispersion at max range	Under Normal temperature, radius of 3 projectiles spread center at max range $R_{100} \leq 15\text{m}$	N/A	N/A
Chemical casualty area	600m ²	N/A	N/A
Delay time	1.5s \pm 0.5s	N/A	Delay ignition 2-3sec
Applicable temperature	-30°C – 45°C	-30°C – 45°C	N/A
Storage time	≥ 5 years	≥ 8 years	≥ 5 years
Color of smoke	N/A	N/A	Red, Yellow, Blue, Orange, White
Package	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221mm	50 round / wooden box Weight 18Kg/Box Pack size 685x366x221mm	Aluminum-Plastic bag and wooden box of 50 rnds Pack size 660x330x220mm Gross Weight 22Kg



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38mm CS Tear Gas Shell (Aluminum Shell)

	Gun Fire Tear Gas	Dual Purpose Tear Gas	Electric Ignition Tear Gas
Case Material	Aluminum	Aluminum	Aluminum
Total Length	112.4+/-0.5mm	112.4+/-0.5mm	112.4+/-0.5mm
Total weight	190+/-0.5g	150+/-0.5g	112+/-0.5g
Method of Ignition	Gun Fire	Gun Fire	Electric ignition
Effective range	>=120m	>=120m	>=120m
Delay ignition time	2-3sec	2-3sec	2-3sec
Storage time	>=5 years	>=8 years	>=5 years
Package	Aluminum-Plastic bag and wooden box, 50 rnds per box Pack size 660x330x220mm		
Gross Weight	13.5Kg	11.5Kg	14Kg

38mm Smoke Shell (Aluminum Shell)

	Gun Fire Tear Gas	Dual Purpose Tear Gas	Electric Ignition Tear Gas
Case Material	Aluminum	Aluminum	Aluminum
Total Length	112.4+/-0.5mm	112.4+/-0.5mm	112.4+/-0.5mm
Total weight	190+/-0.5g	150+/-0.5g	112+/-0.5g
Method of Ignition	Gun Fire	Gun Fire	Electric ignition
Effective range	>=120m	>=120m	>=120m
Delay ignition time	2-3sec	2-3sec	2-3sec
Smoke emission time	15-25sec	15-25sec	15-25sec
Storage time	>=5 years	>=8 years	>=5 years
Package	Aluminum-Plastic bag and wooden box, 50 rnds per box Pack size 660x330x220mm		
Gross Weight	13.5Kg	11.5Kg	14Kg



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38mm Explosion Stunning Shell

	3 Rubber Balls	16 Rubber Balls	Multi Rubber Balls
Total Length	122.4+/-0.5mm	112.4+/-0.5mm	112.4+/-0.5mm
Total weight	185+/-0.5g	200+/-0.5g	140+/-0.5g
Weight of single rubber ball	42g	8g	0.6g
Method of Ignition	Gun Fire	Gun Fire	Gun Fire
Effective range	>=60m	>=50m	>=50m
Muzzle velocity	80+/-10m/s	50+/-10m/s	80+/-10m/s
Storage time	>=5 years	>=8 years	>=5 years
Package	Aluminum-Plastic bag and wooden box, 50 rnds per box Pack size 660x330x220mm		
Gross Weight	13.5Kg	11.5Kg	14Kg



63mm 3-Projectile Tear Gas Shell

Case Material: **Aluminum**

Total Length: **165+/-1mm**

Total weight: **520+/-20g**

Method of Ignition: **Hand throw**

Effective range: **>=50m**

Delay ignition time: **2-3sec**

Storage time: **>=5years**

Package: **Aluminum-Plastic bag and wooden box, 32 rnds per box**

Pack Size: **660x330x220mm**

Gross Weight: **22Kg**



