



219, Vassil Levski Str.
5140 Lyaskovets,
Bulgaria

Fax: +359 (619) 22123
Tel: +359 (62) 62 34 13 Exchange
Tel: +359 (619) 2 31 34 Marketing
E-mail: office@arcus-bg.com
Website: www.arcus-bg.com

TECHNICAL SPECIFICATION of 40x53mm High Velocity High Explosive Grenade with Self Destruction AR383, Linked



Caliber	40x53mm
Type of projectile:	High Explosive/ Fragmentation with Self Destruction
Compatibility:	40x53mm Automatic Grenade Launchers: Mk19 Mod 3, H&K GMG, Santa Barbara LAG 40
Link	M16A2
Muzzle Velocity	237 m/s (+/- 10 m/s), measured at 24 m from muzzle at temperature 21°C
Max Chamber Pressure:	$P_{max} \leq 115 \text{ MPa}$ (1170 kgf/cm ²)
Standard Deviation Requirements (300m distance):	Vertical SD not more than 0.3m at 300m (1mil); Horizontal SD not more than 0.3m at 300m (1mil).
Maximum Range:	2200 m
Length of Round (max):	max 112 mm
Weight of Round:	0.390 kg
Weight of Projectile:	max 0.250 kg
Defeat Radius of Fragments from point of impact against standing target (min):	6 m
Operational Temperature Range:	-54°C to +52°C
Shelf Life:	10 years in manufacturer's packing, stored in ventilated, temperature isolated ammunition storehouses/ depots
Fuze:	Point Detonating with Self Destruction AR783
Fuze Safety /Not armed Distance (min):	18 m
Fuze Armed Distance (max):	50 m
Self-Destruction Time:	22 sec min.
Explosive Type:	RDX
Explosive Charge Weight:	0.046 kg
Cartridge case material:	Aluminum
Propellant	NC Single Base propellant
Propellant weight:	0.004 kg.
Primer	Percussion Primer FED 215 (or equivalent)



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PACKING DATA:	32 Linked grenades are packed into PA120 Ammunition box 42 metal boxes on wooden pallet
Metal box dimensions	473 x 162 x 258
Net weight	12.3 kg
Gross weight	20 kg (max)
Pallet dimensions	1224 x 1005 x 930 mm
Net weight	516.6 kg
Gross weight	877 kg
Hazard Class	1.1E
UN Number	0006

