

PRIMASHEET® 1000 Flexible Explosive

PRODUCT TECHNICAL DATA SHEET

DESCRIPTION:

PRIMASHEET® 1000 Flexible Explosive is a waterproof PETN-based (63% nominal) flexible sheet explosive. It is manufactured as a continuous roll of varying lengths and thicknesses for a wide range of applications. It is type classified and qualified to MIL-PRF-46676 for use by United States Military and International Forces.



APPLICATION:

Due to its consistent performance and properties, PRIMASHEET® 1000 fulfills a wide variety of uses in military demolition applications and commercial explosive hardening of metals. Both commercial and military configurations are available.

- Breaching
- Military demolition
- Ordnance disposal
- Metal hardening
- Metal forming and welding
- Skin severance charge

PROPERTIES:

- VOD: 7,100 m/s (nominal)
- Density: 1.44 g/cc (nominal)
- Operating temperature:
-40°F to 165°F (-40°C to 74°C)
- Bullet-impact insensitive
- Compliant with Montreal Protocol



ENSIGN-BICKFORD AEROSPACE & DEFENSE COMPANY

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PRIMASHEET® 1000 Flexible Explosive

SPECIFICATIONS:

NATIONAL STOCK NUMBER	DODIC	WEIGHT	THICKNESS (NOMINAL)		ROLLS PER BOX	WEIGHT PER ROLL		ROLL LENGTH	
		gm/in ²	in	mm		lb	kg	ft	m
1375-01-038-6885	M994	C 1	0.042	1	2	10	4.5	38	11.6
1375-01-038-6884	M993	C 1.5	0.062	1.5	2	10	4.5	24	7.2
1375-01-036-0443	M980	C 2	0.083	2	2	20	9.1	38	11.6
1375-01-036-0444	M981	C 3	0.125	3	2	20	9.1	25	7.6
1375-01-036-0445	M982	C 4	0.166	4	2	20	9.1	19	5.8
1375-01-036-0446	M983	C 5	0.208	5	2	20	9.1	15	4.6
1375-01-036-0447	M984	C 6	0.250	6	2	20	9.1	13	4.0
1375-01-036-0448	M985	C 7	0.291	7	2	20	9.1	11	3.4
1375-01-036-0449	M986	C 8	0.333	8	2	20	9.1	9	2.7

OPERATION:

Demolition/Breaching—PRIMASHEET® 1000 is an excellent tool for general demolition applications. It can be easily cut to any desired shape and applied with adhesive or incorporated into a charge holder. The flexible sheet can be applied as strips directly on the target or used to improvise linear shape charges.

Metal Hardening—PRIMASHEET® 1000 finds extensive use in hardening metals. Manganese steels can be hardened by detonating the flexible sheet in contact with the metal surface. This high-velocity hardening technique is used extensively in the railroad industry for metal track switches. Explosive joining and forming of metals can also be accomplished with PRIMASHEET® 1000.



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