TECHNICAL DATA SHEET

OIL FIELD EXPLOSIVES

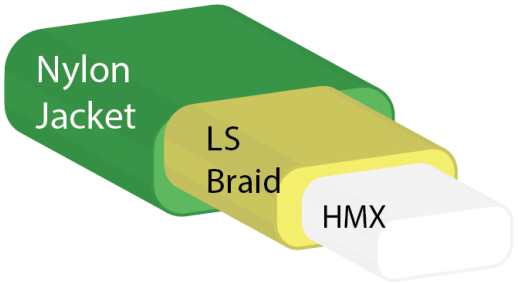
FIRELINE® 8/40 HMX LS RIBBON

Oil Field Detonating Cord

Properties	SDS #1121
Explosive Core Load	8.6 g/m (40 gr/ft) nominal
	7.2 g/m (34 gr/ft) minimum
Detonation Velocity	7800 m/s (24,600 ft/s) nominal
	7100 m/s (22,960 ft/s) minimum
Shrinkage	1% maximum @ 163°C (325°F) in 24 hrs
Jacket Thickness	0.20 mm (0.008 in) minimum
Dimensions	5.53 mm (0.218 in) width maximum
	3.30 mm (0.130 In) height maximum
Lap Joint Sensitive	Yes
Product Code	A545010
Cord Components	HMX explosive core (white)
	Shrink resistant wrap (yellow/gold)
	Nylon jacket (green)

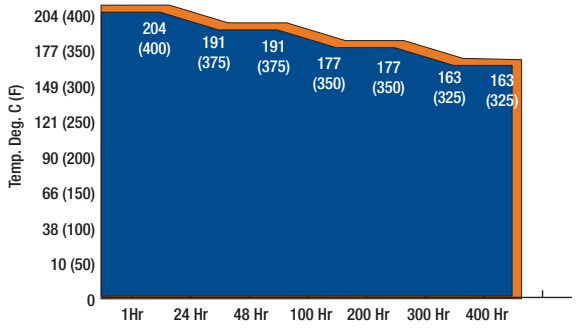
- **Temperature resistance** is based upon the manufacturer's laboratory tests in air, at ambient pressure only.
- **Shrinkage** is defined as the overall decrease in length.
- **Velocity** was tested unconfined, at ambient pressure, and after "cool down."

Hazardous Shipping Description
Cord, Detonating, 1.1D, UN 0065 EX 1992020035
Alternative packaging: FIREPAK® 1.4D air cargo shipping containers
Product Code A545015
Cord, Detonating, 1.4D UN 0289 EX 2007060067



Product Description
FIRELINE 8/40 HMX LS RIBBON is specially processed ribbon detonating cord using "shrinkage resistant" construction components. Its recommended application is "RTG" (retrievable tubing gun) perforating systems (1-11/16", 2-1/8", 2-3/4") and should be employed within the normal HMX operating range (see graph below). Ribbon cord utilizes minimum carrier I.D. space allowing for an application of a larger designed shape charge.

Temperature Range
The temperatures listed are maximum values. DO NOT EXCEED.



ADDITIONAL INFORMATION – Visit dynonobel.com for Brochures and Case Studies related to this product.

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TECHNICAL DATA SHEET

FIRELINE® 8/40 HMX LS RIBBON

Oil Field Detonating Cord

Transportation, Storage and Handling

- For maximum shelf-life, detonating cord must be stored in cool, dry, well-ventilated magazines. Explosives inventory should be rotated. Use older inventory first. Recommended shelf life, under proper storage conditions, is ten (10) years from date of manufacture.
- FIRELINE 8/40 HMX LS RIBBON detonating cords must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

Application Recommendations

- **This product is not recommended for exposure to well bore fluids.**
- **ALWAYS** cut FIRELINE 8/40 HMX LS RIBBON detonating cord with a sharp knife.
- **NEVER** attempt to cut FIRELINE 8/40 HMX LS RIBBON detonating cord with a blow from a sharp or blunt object, such as an axe, pipe wrench, or rock.
- **NEVER** saw FIRELINE 8/40 HMX LS RIBBON detonating cord; it may explode and kill or injure.
- **NEVER** cut detonating cord with devices that produce metal-to-metal contact, such as scissors, wire cutters, crimpers or similar instruments.

Packaging

Package	Gross Weight		Net Weight		Explosive Weight		spool/ case	Length/ Spool*	
	kg	lbs	kg	lbs	kg	lbs		m	ft
Fiberboard Box	3.3	7.3	3.1	6.8	1.3	2.9	1	152	500
Airpack Box	16.3	35.9	3.1	6.8	1.3	2.9	1	152	500

- **Weights represent nominal values.**

*** ±2%; 152m spools may contain as many as 4 pieces, totally 152 m, with a minimum splice/piece length of 8 m (25 ft).**

CE 1395

Case Dimensions

Fiberboard: 26 x 26 x 14 cm / 10.25 x 10.25 x 5.5 in

Airpack: 74.3 x 44.1 x 68.27 cm / 29.25 x 17.375 x 26.875 in

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