






Remington Arms Company, Inc.
 PO Box 700, 870 Remington Drive
 Madison, NC 27025
 800.243.9700

LEADLESS™ PRODUCT DATA SHEET

9mm Luger/147-gr Flat Nosed Enclosed Base (FNEB)

Index LL9MM9
 RAMAC 23749
 Date prepared/ revised 9-Nov-10

COMPONENT & MANUFACTURING INFORMATION

CALIBER	9mm Luger	
SHELL	Brass (Copper alloy 260; cartridge brass)	
BULLET WEIGHT	147-grain	
BULLET CONSTRUCTION	Copper jacket (alloy 220), lead core, flat nose, jacket completely encapsulates heel of bullet eliminating lead exposed to propellant gases.	
PRIMER	Remington #147-HMF; Diazodinitrophenol (Dinol)-based heavy-metal-free priming mix. Tested operating range: -20°F to +150°F (-29°C to +66°C)	
PRIMER SEALANT	None	
CASEMOUTH SEALANT	Asphaltic sealant	
CASE KNURL	None	
HEADSTAMP	Loaded cartridges are headstamped with "R-P" and "9mm LUGER"	
PRIMER MARKING	Primer cups are marked "HF" to enable visual identification	
PROPELLANT DETECTION	100% mechanical, electrical, or electro-mechanical detection of propellant level within the cartridge.	
LOT IDENTIFICATION	Each box of ammunition is identified with a unique code which allows traceability to shift/day/month/year of packaging and/or loading and all in-process assembly and test results.	
FINAL INSPECTION	100% visual and/or vision system inspection of finished cartridges prior to final packaging.	
PACKAGING	Box quantity..... 50 cartridges Case quantity 500 cartridges	

BALLISTIC & PERFORMANCE INFORMATION

AVERAGE INSTRUMENTAL VELOCITY	985 ± 35 fps (measured at 15', over 20') for a 10-round test when fired from a SAAMI-compliant unvented (solid) test barrel.
AVERAGE PRESSURE	35,000 psi maximum for a 10-round test measured at the time of manufacture with a conformal piezoelectric transducer in a SAAMI-compliant test barrel.
AVERAGE MUZZLE ENERGY	320 ft-lb _f (990 fps muzzle)
ACCURACY	Maximum extreme spread of three 5-round groups of 2.8" at 25 yards fired from a SAAMI-compliant accuracy test barrel mounted in a Universal Receiver.
BULLET PULL	Minimum average (10-round test)..... 39 lb _f Minimum individual..... 26 lb _f

Note: **LeadLess** rounds will not defeat Class IIA body armor.
LeadLess® is a trademark of Remington Arms Co., Inc., Madison NC 27025



LEADLESS™ PRODUCT DATA SHEET
9mm Luger/147-gr Flat Nosed Enclosed Base (FNEB)
Page 2 of 2

TYPICAL TERMINAL BALLISTIC PERFORMANCE*

(This round is designed for training purposes and is not intended to provide terminal performance.)

DOWNRANGE (EXTERNAL) BALLISTIC PERFORMANCE

<u>RANGE</u>	<u>VELOCITY</u>	<u>ENERGY</u>	<u>MID-RANGE TRAJECTORY</u>	<u>SIGHT LINE TRAJECTORY</u>
0 (MUZZLE)	990 fps	320 ft-lb _f	0.0"	-0.9"
25 YARDS	964 fps	304 ft-lb _f	0.3"	+0.5"
50 YARDS	941 fps	289 ft-lb _f	1.1"	* zero*