



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

**LEADLESS™ PRODUCT DATA SHEET**

**40 S&W 180-gr Flat Nosed Enclosed Base (FNEB)**

Index ..... LL40SW5  
 RAMAC ..... 23791  
 Date prepared/revised ..... 30-Oct-08

**COMPONENT & MANUFACTURING INFORMATION**

**CALIBER** ..... 40 S&W

**SHELL** ..... Brass (Copper alloy 260; cartridge brass)

**BULLET WEIGHT** ..... 180-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 #149HMF; 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 "40 S&W"

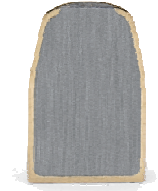
**PRIMER MARKING**..... Primer cups are marked "HF" to enable visual identification

**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



REPRESENTATIVE IMAGES

**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**..... 392 ft-lb<sub>f</sub> (990 fps muzzle)

**ACCURACY**..... Maximum extreme spread of three 5-round groups of 2.5" at 25 yards fired from a SAAMI-compliant accuracy test barrel mounted in a Universal Receiver.

**BULLET PULL**..... Minimum average (10-round test) ..... 72 lb<sub>f</sub>  
 Minimum individual ..... 59 lb<sub>f</sub>

Note: *LeadLess* rounds will not defeat Class IIA body armor.  
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