Remington Arms Company, Inc.
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PRODUCT DATA SHEET

9mm Luger +P 90-gr Copper Tin Frangible

Index CTF9MMA
RAMAC 29459
Date prepared 15-Aug-08

COMPONENT & MANUFACTURING INFORMATION

CALIBER..... 9mm Luger +P

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

BULLET WEIGHT.....90-grain

BULLET CONSTRUCTION.....Sintered/compressed powdered Copper/Tin core, frangible

PRIMER.....Remington #149HMF4; Diazodinitrophenol (Dinol)-based heavy-metal-free priming mix.

PRIMER SEALANT ..... Lacquer-type sealant

CASEMOUTH SEALANT ..... None

CASE KNURL ..... None

HEADSTAMP..... Loaded cartridges are headstamped with the following information: "R-P" and "9mm LUGER +P"

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

PROPELLANT.....Flash suppressed for minimum visible light signature

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..... 1,400 ± 40 fps (measured at 15', over 20') for a 10-round test when fired from a SAAMI-compliant test barrel.

AVERAGE PRESSURE ..... 38,500 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 .....403 ft-lb $_f$ (1,420 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.

FRANGIBILITY ..... No fragments greater than 5 grains after impact with a hard steel (AR500) target at 45°.