

DECLASSIFIED UNDER AUTHORITY OF THE
INTERAGENCY SECURITY CLASSIFICATION APPEALS PANEL,
E.O. 13526, SECTION 5.3(b)(3)

ISCAP APPEAL NO. 2013-027, document no. 7
DECLASSIFICATION DATE: September 29, 2014

B. Brown

~~CONFIDENTIAL~~

RFP DAAF03-72-R-0014

UK

NOVEMBER 5, 1974



PHILCO 

Philco-Ford Corporation
Aeronutronic Division
Newport Beach, California.

ALL TITLES IN THIS PRESENTATION ARE UNCLASSIFIED

<p>CLASSIFIED BY: FORM DD-254, DATED 16 NOV 1972 REF DAAF03-72-R-0014 SUBJECT TO GDS OF EO 11652 AUTOMATICALLY DOWNGRADED AT TWO YEAR INTERVALS DECLASSIFY ON: 31 DECEMBER 1980</p>	<p>NATIONAL SECURITY INFORMATION Unauthorized Disclosure Subject to Criminal Sanctions</p>
---	---

~~CONFIDENTIAL~~

THIS SLIDE IS UNCLASSIFIED

CRITICAL CHARACTERISTICS AND KEY TECHNICAL REQUIREMENTS

~~CONFIDENTIAL~~

CHARACTERISTIC	REQUIREMENT
ARMOR PENETRATION (AP-T)	1 INCH RHA INCLINED 60° AT 1000 METERS
HIGH EXPLOSIVE PERFORMANCE (HE-T)	
PERSONNEL LETHALITY	13 SQ METER LETHAL AREA
AIRCRAFT LETHALITY	$P_{K/H} \geq 0.2$ TO 2000 M
FUZE	POINT DETONATING, SUPER QUICK WITH SELF DESTRUCT AND GRAZE SENSITIVITY
ACCURACY AND DISPERSION	
HE-T FULL AUTOMATIC (550 SPM)	$\sigma_x = \sigma_y = 0.97$ MILS
AP-T AUTOMATIC (100 SPM)	$\sigma_x = \sigma_y = 0.59$ MILS
RELIABILITY, DURABILITY AND MAINTAINABILITY	
NON-CLEARANCE STOPPAGE RATE	1 PER 2500 ROUNDS
WEAPON LIFE	25,000 ROUNDS
MINIMUM COMPONENT LIFE	4,000 ROUNDS
FIELD STRIP AND REASSEMBLY TIME	4 MINUTES WITHOUT TOOLS
RECOIL LOADS	VEHICLE COMPATIBLE
AMMUNITION STORAGE VOLUME	1000 ROUNDS IN 19 CUBIC FEET

RAI = 17.5 CU FT./1000
LINKED

~~CONFIDENTIAL~~

ARMOR PENTRATION COMPARISON

~~CONFIDENTIAL~~

PROJECTILE	MAXIMUM ARMOR DEFEAT RANGE
20MM PATEC	650 METERS
25MM OERLIKON	932
PFB-25 (CONUS)	1479

~~CONFIDENTIAL~~
4-37-35