

COMBAT UTILITY KNIFE (CUK)

SPECIFICATION SHEET

The Combat Utility Knife (CUK) was conceived as an all-purpose field, general aviation and diving knife, designed to exceed military standards of toughness and durability. It is made entirely of stainless steel and Dupont ZYTEL. All exterior surfaces of the knife have been made flat black so as to be completely non-reflective.

GENERAL SPECIFICATIONS

Weight (Knife & Scabbard):	1.35 lb.
Length of Blade:	5.375 inch
Width of Blade:	0.20 inch
Overall Length of Knife:	10.00 inch
Finish:	Black Oxide

The blade is manufactured of 425 modified stainless steel, forged and hollow ground. This is the same steel used in the M9 Bayonet (also a PHROBIS III, Ltd. product). The blade is shaped like the traditional Bowie, except that it has a straight false edge, reinforced point, a 2.50 inch fuller on the right side and a saw broached along its spine. The saw has 38 teeth and is specifically designed to cut light weight sheet metal (such as the aluminum skin on an aircraft). The blade is heat treated to a maximum of 57 on the Rockwell "C" scale, and the tang area annealed to 40 on the same scale. The knife's edge is formed at a 20 degree angle from the horizontal and it is the only bright area on the entire unit.

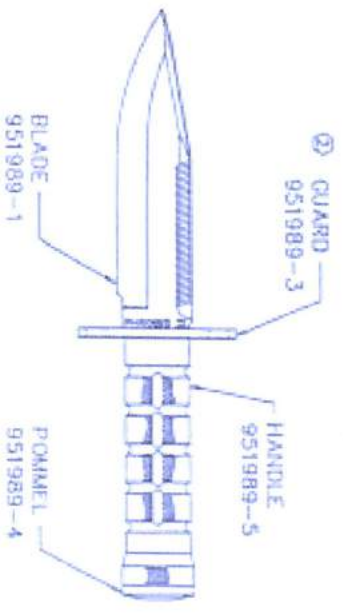
The handle and scabbard are made of Dupont ZYTEL, a very tough and expensive nylon derivative. This material resists cracking and deformation between -50 degrees F and +150 degrees F. It is also impervious to solvents, oils, fuels, fungus, rot, etc. The handle is provided with knurling and a series of annular and horizontal grooves to give it a secure grip. The scabbard is extremely light, weighing only 6 ounces. It has a versatile swivel feature, so it can be worn comfortably in any position, even seated. The belt loop is 2 1/2 inches wide, large enough to fit an issue military web pistol belt. The belt loop can be turned through 180 degrees so it lays flat against the back of the scabbard, in this position the vertical slots cut through it match up with those molded into the lugs on the sides of the scabbard. With the use of straps, the scabbard can then be securely attached to an individual's web gear or person, in any position desired, even inverted. The scabbard has a large flat internal stainless steel spring*which presses the blade up against its rear wall and also pushes the knife's handguard under a substantial lip molded into the scabbard's mouth. This system holds the knife firmly in place, but makes it possible to draw it with one hand. The scabbard also has a drain hole in the bottom, for diving applications.

* Not sure if the commercial models ever used stainless steel spring

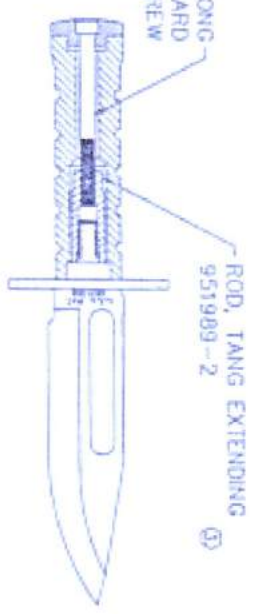
REV	DESCRIPTION	DATE	BY

NOTES

1. APPLICABLE DOCUMENTS/SPECIFICATIONS:
 - A. DDD-STD-000000(M)
 - B. AF9 Y4.5M-1983
 - C. MIL-W-13855
2. GUARD SHALL BE POSITIONED OVER THE TANG END OF THE BLADE WITH THE HALF-MOON CUTS TOWARD THE FRONT OF THE BLADE AS SHOWN.
3. ROD, TANG EXTENDING SHALL BE THREADED ONTO THE TANG OF THE BLADE AND TORQUED 120 IN-LB ±25 IN-LB.
4. HEXAGON SOCKET CAP SCREW SHALL BE TORQUED TO 84 IN-LB ±12 IN-LB.



⑤ .250-20UNC-2A X 2.75 LONG
AMERICAN NATIONAL STANDARD
HEXAGON SOCKET HEAD CAP SCREW



PARTIAL SECTION VIEW

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.
DIMENSIONS IN SQUARE BRACKETS ARE FOR INFORMATION ONLY.
DIMENSIONS IN ITALIC BRACKETS ARE FOR INFORMATION ONLY.
DIMENSIONS IN SMALL CAPS ARE FOR INFORMATION ONLY.
DIMENSIONS IN ALL CAPS ARE FOR INFORMATION ONLY.

PARTS LIST QUANTITY PART NUMBER DESCRIPTION UNIT OF MEASURE COMMENTS		APPROVED BY: [Signature] DATE: [Date]	
1	951989-20	KNIFE ASSEMBLY	1
1	951989-1	BLADE	1
1	951989-3	GUARD	1
1	951989-5	HANDLE	1
1	951989-4	POMMEL	1
1	951989-2	ROD, TANG EXTENDING	1
1	951989-10	HEXAGON SOCKET HEAD CAP SCREW	1

