

**HAND RECEIPT**

**COVERING CONTENTS OF COMPONENTS OF  
END ITEM (COEI), BASIC ISSUE ITEMS (BII),  
AND ADDITIONAL AUTHORIZATION LIST (AAL)**

**FOR**

**PETROLEUM BASE LABORATORY ASSEMBLY  
NSN 6640-00-303-4940**

**This manual supersedes TM 5-6640-214-14-HR, 4 May 1982.**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**4 JANUARY 1985**

**HAND RECEIPT**

**COVERING CONTENT OF COMPONENTS OF END ITEM (COEI),  
BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL)  
FOR**

**PETROLEUM BASE LABORATORY ASSEMBLY  
NSN 6640-00-303-4940**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual If you find any mistake or If you know of a way to improve the procedures, please let us know Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to Commander, U S Army Troop Support Command, ATTN: AMSTR-MPS, 4300 Goodfellow Boulevard. St Louis, MO 63120-1798 A reply will be furnished directly to you

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**Section I. INTRODUCTION**

**1. Scope.**

This publication provides an overprinted DA Form 2062 (Hand Receipt) which lists the contents of Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) items related to the Petroleum Base Laboratory Assembly.

**2. General.**

a. Section II is the overprinted DA Form 2062 which lists the content of COEI, BII, and AAL extracted from TM 5-6640-314-14 The listings consist of exactly the same items and are in the same sequence as those listings in TM 5-6640-214-14.

b. The overprinted DA Form 2062 will eliminate manual preparation of the form and will assist

organizations in inventorying and accounting for property as required by AR 710-2.

c. Local reproduction of the overprinted DA Form 2062 is authorized. However, organizations shall comply with local policies in the reproduction of DA Form 2062 by office copying equipment, field printing plant, or duplicating plant facilities.

d. Additional copies of this publication may be requisitioned from:

Commander

US Army AG Publications Center  
ATTN: AGDL-OD  
2800 Eastern Blvd.  
Baltimore MD 21220

**3. Explanation of Blocks and Columns (DA Form 2062).** Refer to DA PAM 710-2-1 Chapter 6 Additional information required to complete DA Form 2062 is listed below:

a. Hand receipts shall identify the accounting requirement status of Column C. One of the following Accounting Requirement Codes (ARC) will apply.

(N) for Nonexpendable: Items not consumed in use, retaining their identity during use, and requiring that accountability be maintained throughout the life of the item.

(D) for Durable: Nonconsumable components of sets, kits, outfits, and assemblages; all tools in FSC's 5110, 5120, 5130, 5133, 5136, 5140, 5180, 5210, 5220 and 5280; and any other nonconsumable

with a price in excess of \$50.00 not already "N".

(X) for Expendable: Items regardless of type classification or price and which are consumed in use. Includes all class 9 repair parts. Items not consumed in use which cost \$50.00 or less and not already "N" or "D"

b. Authorization documents are as follows:

(1) Components of End Item (COEI) are authorized by the applicable Repair Parts and Special Tools List (RPSTI).

(2) Basic Issue Items (BII) are authorized by the applicable operator's manual.

(3) Additional Authorization List (AAL) items are authorized by appropriate MTOE, TDA, CTA, or JTA authorization documents

Section II. HAND RECEIPT

HAND RECEIPT/ANNEX NUMBER <i>For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG</i>		FROM			TO			HAND RECEIPT NUMBER						
FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER 6640-00-303-4940	END ITEM DESCRIPTION PETROLEUM BASE ALBORATORY ASSEMBLY	PUBLICATION NUMBER TM 5-6640-214-14		PUBLICATION DATE 12 Dec 81		QUANTITY 1							
STOCK NUMBER <i>a.</i>		ITEM DESCRIPTION <i>b.</i>			* <i>c.</i>	SEC <i>d.</i>	UI <i>e.</i>	QTY AUTH <i>f.</i>	g. QUANTITY					
									A	B	C	D	E	F
6640-00-303-4940		PETROLEUM BASE LABORATORY ASSEMBLY			N									
		COMPONENTS OF END ITEM (COEI)												
		ANILINE POINT APPARATUS U-TUBE, 120V, 50/60HZ			X		EA	1						
		BOILER, STEAM			N		EA	1						
		ELEMENT, 208V			X		EA	1						
		GASKET			X		EA	1						
		HEATER CIRCULATION			X		EA	1						
		ELEMENT, 120V, 1500V			X		EA	1						
		THERMOSTAT, 120V			X		EA	1						
		GASKET			X		EA	1						
		THERMOMETER, ANILINE POINT, 25DEGC to 105DEGC			X		EA	6						
6640-00-359-9841		HEATER, ELECTRIC, ANILINE POINT, 800W			N		EA	1						
		CARBON RESIDUE, RAMSBOTTOM, NATURAL GAS, COMPLETE			N		EA	1						
		WITH THE FOLLOWING					EA							
		PYROMETER, 1200DEGF			X		EA	1						
		COKING BULB, GLASS			X		EA	24						
<p>* WHEN USED AS A                  HAND RECEIPT, enter Hand Receipt Annex Number                  HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes                  HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC)</p>														

STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	CONTROL BULB, STEEL	X		EA	1						
	HEATER										
	INSULATOR, HEATER										
	SWITCH, POWER										
	CRUCIBLE, OUTER IRON	X		EA	1						
	CRUCIBLE IGNITION W/O COVER, PORCELAIN	X		EA	12						
	CRUCIBLE, SKIDMORE, NICKEL W/O COVER	X		EA	1						
	COVER, CRUCIBLE	X		EA	1						
6640-00-444-9000	TRIANGLE, CHROMEL WIRE	X		EA	8						
	BURNER, NATURAL GAS	X		EA	1						
6640-00-359-9640	BLOCK, ASBESTOS, MOLDED PORCELAIN, REFRACTORY	X		EA	1						
	BEADS, GLASS, SOLID, 5MM DIA. 2900 PER LO	X		EA	1						
6640-00-062-4336	CENTRIFUGE, ELECTRIC, 4 PLACE HEAD, 60 CYCLE 115V,										
	COMPLETE WITH THE FOLLOWING:	N		EA	1						
	RING, TRUNNION	X		EA	4						
	SHIELD, TUBE	X		EA	12						
6640-00-359-9951	CHROMOMETER, SAYBOLT, COMPLETE WITH THE	N		EA	1						
	FOLLOWING										
	TUBE, UNGRADUATED, W/O FITTINGS	X		EA	2						
	TUBE, GRADUATED U/O FITTINGS	X		EA	2						
	WASHER, RUBBER, 12 EA. PER PKG.	X		EA	1						
	DISC, GLASS	X		EA	1						

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FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER 6640-00-303-4940	END ITEM DESCRIPTION PETROLEUM BASE LABORATORY ASEMBLY	PUBLICATION NUMBER TM 5-6640-214-14	PUBLICATION DATE 21 DEC 81	QUANTITY 1
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STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
	MIRROR, FROSTED W/BASE ASSEMBLY	X		EA	1						
	COLOR STANDARD, WHO E DISC	X		EA	3						
4210-01-003-7709	EXTINGUISHER, FIRE MONO-BROMO, 22 LB	X		EA	4						
6630-01-028-2303	CLOUD AND POUR POINT APPARATUS, 5 UNIT	N		EA	1						
	JAR, GLASS, 4 OZ., CLOUD AND POUR POINT	X		EA	12						
6685-00-247-3737	THERMOMETER - 36 to +120 DER;F (ASTM NO. 6F)	X		EA	6						
6685-00-245-9521	THERMOMETER -112 to +70 DEGF, (ASTM NO. 6F)	X		EA	12						
	COLORIMETER; COMPARATIVE LUBE OILS, COMPLETE W/	X		EA	1						
	JAR. REFEREE	X		EA	2						
	BOTTLE, SAMPLE	X		EA	1						
	STANDARDS, NBS COLOR, SET OF 16 EACH	X		EA	1						
6630-00-251-2118	DISTILLATION UNIT, FRONT VIEW, L.H.	X		EA	1						
	DISTILLATION APPARATUS 115V, AC, 50/60HZ,	X		EA	3						
	COMPLETE WITH THE FOLLOWING:										
	BOARD, DISTILLATION, 1-1/4 IN HOLE	X									
	BOARD DISTILLATION, 2 IN. DIA. HOLE	X		EA	1						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
6640-00-359-9652	BOARD, DISTILLATION, VERMICULITE, 4 IN. DIA. HOLE			EA	2						
6640-00-359-9650	BOARD, DISTILLATION, VERMICULITE, 2-3/4 IN DIA. HOLE	X		EA	3						
6640-00-359-9649	BOARD, DISTILLATION, VERMICULITE, 1-1/2 DIA HOLE	X		EA	4						
6640-00-359-9648	BOARD, DISTILLATION, VERMICULITE, 1-1/4 IN. DIA.HOLE	X		EA	4						
	CYLINDER, GRADUATED, PYREX, 10-ML	X		EA	6						
	CYLINDER, GRADUATED PYREX, 100ML	X		EA	24						
6640-00-359-9870	JAR, PYREX, W/O COVER	X		EA	4						
6685-00-242-2187	THERMOMETER, +30 to +580 DEGF, (ASTM NO. 7F)	X		EA	12						
	THERMOMETER, -2 DEG TO 400 DEGC (ASTM NO. 8C)	X		EA	6						
6685-00-915-5601	THERMOMETER, +30 to +760 DEGF (ASTM NO. 8F)	X		EA	6						
6640-00-359-9794	FLASK, DISTILLING, ENGLER PYREX, W/SIDE ARM, 100ML	X		EA	24						
6640-00-359-9798	FLASK, DISTILLING SAYBOLT, PYREX, W/SIDE ARM 250ML	X		EA	12						
6635-00-359-9827	GREASE DROPPING POINT APPARATUS, 115V	N		EA	1						
6640-00-403-9349	GREASE CUP, AY	X		EA	3						
6640-00-360-0046	TEST TUBE PYREX	X		EA	6						
6685-00-247-3744	THERMOMETER, +20 to +580 DEGF (ASTM NO. 2F)	X		EA	6						
6630-00-359-9787	TESTER, FLASH POINT, CLEVELAND OPEN CUP	X		EA	1						
6685-00-242-2223	THERMOMETER, +20 to 760 DEGF (ASTM NO. 11F)	X		EA	6						
6630-00-530-0987	TESTER, FLASH POINT PENSKY MARTENS	X		EA	1						
6685-00-242-2183	THERMOMETER, +20 to +230 DEGF (ASTM NO. 9F)	X		EA	6						
6630-00-244-9415	TESTER, FLASH POINT TAG CLOSED CUP	N		EA	1						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
6685-00-245-9519	THERMOMETER, -4 to +122 DEGF, (ASTM NO. 57F)	X		EA	12						
6630-00-895-1259	TESTER, GASOLINE GUM CONTENT, 1000W, 115V	N		EA	1						
6640-00-290-6817	BEAKER, PYREX, W/O SPOUT, 100ML	X		EA	24						
6640-00-290-6693	BATH, GUM STABILITY APPARATUS, 2 BOMB CAP	N		EA	1						
	TABLE SOCKET, FOR BOMB	X		EA	1						
	LINER, BOMB, PYREX	X		EA	24						
	GAGE, RECORDING PRESSURE, W/100 CHARTS	X		EA	1						
	HOSE, AIR, W/CHECK VALVE, 6 FT LG	X		EA	1						
6685-00-242-2205	THERMOMETER, +204 to +218 DEGF, (ASTM NO. 22F)	X		EA	6						
	GASKET, BOMB, 12 EA PER PACKAGE	X		EA	2						
6640-00-260-0051	BOMB, GUM, STABILITY, COMPLETE W/6 EA.	X									
	GASKETS AND PYREX LINER	X		EA	2						
4720-00-360-0047	TUBING, FLEXIBLE METAL 5 FT LG W/COUPLINGS	X		EA	4						
6640-00-360-0067	WRENCH, BOMB, 6 IN.	X		EA	2						
	SULFUR TEST APPARATUS OXYGEN BOMB, COMPLETE W/BOMB,	X		EA	1						
	BATH, GAGE AY AND IGNITION UNIT										

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						A	B	C	D	E	F
	HYDROMETER, API, -1 to +11 DEGF, (ASTM NO. 51H)	X		EA	2						
	HYDROMETER, API, +9 to +21 DEGF, (ASTM NO. 52H)	X		EA	3						
6630-00-242-9257	HYDROMETER, API, +19 to +31 DEGF, (ASTM NO. 53H)	X		EA	4						
6630-00-242-9258	HYDROMETER, API, +29 to +41 DEGF, (ASTM NO. 54H)	X		EA	4						
6630-00-245-8376	HYDROMETER, API, +39 to +51 DEGF, (ASTM NO. 55H)	X		EA	4						
6630-00-245-8377	HYDROMETER, API, +49 to +61 DEGF, (ASTM NO. 56H)	X		EA	8						
6630-00-245-8374	HYDROMETER, API, +59 to +71 DEGF, (ASTM NO. 57H)	X		EA	4						
6630-00-245-8375	HYDROMETER, API, +69 to +81 DEGF, (ASTM NO. 58H)	X		EA	2						
6630-00-252-2264	HYDROMETER, API, +79 to +91 DEGF, (ASTM NO. 59H)	X		EA	2						
6630-00-252-2262	HYDROMETER, API, +5 to +11 DEGF, (ASTM NO. 22H)	X		EA	2						
6630-00-252-2263	HYDROMETER, API, +10 to +16, DEGF, (ASTM NO. 23H)	X		EA	2						
6630-00-252-2260	HYDROMETER, API, +15 to +21 DEGF, (ASTM NO. 24H)	X		EA	4						
6630-00-252-2261	HYDROMETER, API, +20 to +26 DEGF, (ASTM NO. 25H)	X		EA	4						
6630-00-252-2258	HYDROMETER, API +25 to +31 DEGF, (ASTM NO. 26H)	X		EA	4						
6630-00-252-2259	HYDROMETER, API, +30 to +36 DEGF, (ASTM NO. 27H)	X		EA	4						
6630-00-252-6389	HYDROMETER, API, +35 to +41 DEGF, (ASTM NO. 28H)	X		EA	4						
6630-00-252-6390	HYDROMETER, API, +40 to +46 DEGF, (ASTM NO. 29H)	X		EA	4						
6630-00-252-2256	HYDROMETER, API, +45 to +51 DEGF, (ASTM NO. 30H)	X		EA	4						
6630-00-252-2257	HYDROMETER, API, +50 to +56 DEGF, (ASTM NO. 31H)	X		EA	4						
6630-00-252-2254	HYDROMETER, API, +55 to +61 DEGF, (ASTM NO. 32H)	X		EA	8						
6630-00-252-2255	HYDROMETER, API, +60 to +66 DEGF, (ASTM NO. 44H)	X		EA	4						

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FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER	END ITEM DESCRIPTION	PUBLICATION NUMBER	PUBLICATION DATE	QUANTITY
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						A	B	C	D	E	F
6630-00-252-2252	HYDROMETER, API, +65 to +71 DEGF, (ASTM NO. 34H)	X		EA	2						
6630-00-252-2253	HYDROMETER, API, +70 to +76 DEGF, (ASTM NO. 35H)	X		EA	2						
6635-00-359-2232	PENETROMETER, UNIVERSAL COMPLETE W/50 AND 100 GM	N		EA	1						
	WEIGHT										
6640-00-359-2218	CONE, BRASS	X		EA	4						
	NEEDLE	X		EA	2						
	GREASE WORKING MACHINE, EMD	X		EA	1						
	WORKER ASSEMBLY, LOWER										
	WORKER ASSEMBLY ASTM (51 HOLES)										
6635-00-359-9947	SEDIMENT APPARATUS, FUEL OIL	X		EA	2						
	CONDENSER, METAL	X		EA	2						
6640-00-290-6874	FLASK, ERLLENMEYER, 1000ML	X		EA	6						
5640-00-359-9985	SUPPORT, WIRE BASKET	X		EA	6						
6640-00-360-0011	THIMBLE, ALUNDUM	X		EA	12						
6635-00-359-9956	SMOKE POINT APPARATUS COMPLETE W/STAND	N		EA	1						
9390-00-360-0064	WICK, SMOKE POINT APPARATUS, 144 EA.	X		EA	1						

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						A	B	C	D	E	F
6630-00-303-7734	SULFUR DETERMINATION APPARATUS W/BASE	X		EA	2						
6630-00-359-9619	ABSORBER, PYREX	X		EA	2						
	BURNER, PYREX	X		EA	2						
	CHIMNEY, PYREX	X		EA	2						
6640-00-359-9799	FLASK, ERLLENMEYER, 25ML	X		EA	5						
	TRAP, SPRAY, PYREX	X		EA	2						
	WICK, LAMP AY, 12 EA.	X		EA	2						
6640-00-359-9994	SUPPORT, STAND	X		EA	2						
	TETRAETHYL LEAD APPARATUS PYREX, COMPLETE	X		EA	3						
	VISCOSIMETER, SAYBOLT, COMPLETE W/THERMOMETER	X		EA	1						
6640-00-359-9629	BATH, REIDVAPOR PRESSURE 3 BOMB TYPE, 115V, 50/60HZ	N		EA	1						
6630-00-359-9658	BOMB, VAPOR PRESSURE	X		EA	3						
6685-00-254-5005	GAUGE, RVP, 0 to 15PSI	X		EA	4						
6635-00-254-5004	GAUGE, RVP, 0 to 45PSI	X		EA	1						
6685-00-242-2203	THERMOMETER, +94 to +108 DEGF, (ASTM NO. 18F)	X		EA	6						
6685-00-245-7696	THERMOMETER, -30 to +120 DEGF, (ASTM NO. 58F)	X		EA	6						
6630-00-162-6548	BATH, KINEMATIC VISCOSITY	X		EA	2						
	TUBE COVER AND SUPPORT CLIP, ZIETFUCH	X		EA	1						
	PAN, W/LIP, VISCOSIMETER	X		EA	1						
	STRAINER, VISCOSIMETER	X		EA	2						
	OIL, STANDARDIZATION, QT BDTTLE, API VISCOSTTY. GAMMA 48	X		EA	2						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	OIL. STANDARDIZATION, 1 QT BOTTLE, API VISCOSITY BETA 48	X		EA	4						
6685-00-247-3765	THERMOMETER, +97.5 to +102.5 DEGF, (ASTM NO 28F)	X		EA	12						
6685-00-249-3764	THERMOMETER, +127.5 to +132.5 DEGF, (ASTM NO. 29F)	X		EA	12						
6685-00-247-3763	THERMOMETER, +207.5 to +212.5 DEGF, (ASTM NO. 30F)	X		EA	12						
6630-00-397-9293	VISCOMETER, PYREX CALIBRATED 0.8 to 4 CENT. (ASTM SIZE 50)	X		EA	2						
6630-00-359-9903	VISCOMETER, PYREX, CALIBRATED, 3 to 15 CENT. (ASTM SIZE 100)	X		EA	2						
6630-00-359-9904	VISCOMETER, PYREX CALIBRATED, 20-100 CENT., (ASTM SIZE 200)	X		EA	2						
6630-00-359-9905	VISCOMETER, PYREX, CALIBRATED, 50 to 250 CENT., (ASTM SIZE 300)	X		EA	2						
	VISCOMETER, PYREX CALIBRATED, 240 to 1200 CENT., (ASTM SIZE 400)	X		EA	2						

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						A	B	C	D	E	F
	VISCOMETER, PYREX, CALIBRATED, 1600 to 8000 CENT., (ASTM SIZE 500)	X		EA	2						
6630-00-359-9893	VISCOMETER, PYREX, CALIBRATED, 4000 to 20,000 CENT., (ASTM SIZE 600)	X		EA	4						
6685-00-245-7696	THERMOMETER-30 to 120F, (ASTM NO. 58F)	X		EA	6						
	THERMOMETER-61 to -29 DEGF, (ASTM NO. 43F)	X		EA	6						
	THERMOMETER-67.5 to -62.5 DEGF, (ASTM NO 74F)	X		EA	6						
6640-00-290-6687	ROD, PYREX, 6MM DIA., 4 FT LG	X		EA	5						
6640-00-290-6689	ROD, PYREX, 8MM DIA., 4 FT LG	X		EA	5						
	ROD, PYREX, 9MM DIA., 4 FT LG	X		EA	5						
6640-00-290-6691	ROD, PYREX, 10MM DIA., 4 FT LG	X		EA	5						
	GRID, WIRE, GAUZE, IRON, 6 X 6 IN.	X		EA	6						
	GRID, WIRE GAUZE, IRON W/CERAMIC CENTER, 6 X 6 IN.	X		EA	6						
	WATER DETERMINATION APPARATUS 550W, 115V, 60HZ	N		EA	2						
	CONDENSER, LIEBIG, 400MM	X		EA	4						
6640-00-410-4462	RECEIVER, DISTILLING 25ML	X		EA	6						
6640-00-290-6864	FLASK, BOILING, PYREX 500ML	X		EA	6						
	RECEIVER, DISTILLING, 10ML	X		EA	6						
	ASBESTOS, FIBER ACID, 1 LB	X		EA	1						
	BALANCE, ANALYTICAL	N		EA	1						
	WEIGHTS, ANALYTICAL BALANCE	X		EA	2						

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FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER 6640-00-303-4940	END ITEM DESCRIPTION PETROLEUM BASE LABORATORY ASSEMBLY	PUBLICATION NUMBER TM 5-6640-214-14	PUBLICATION DATE 21 Dec 81	QUANTITY 1
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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	BALANCE, ANALYTICAL 200 GM CAP	X		EA	1						
	BALANCE, TORSION, 2Kr. CAP, W/O PANS	X		EA	1						
	PANS, STAINLESS STEEL W/PAN HOLDERS (2 PER SFT)	X		EA	1						
	WEIGHT SET. 1 to 500 GM	X		EA	1						
	BAROMETER, ANEROID	X		EA	1						
	BATH, OXIDATION STABILITY	N		EA	1						
	BOMB, NORMA-HOFFMAN	X		EA	3						
	OIL, BATH, TECHNICAL WHITE, 1 GAL	X		EA	10						
	THERMOMETER, 204 DEGF to 218 DEGF(ASTM No. E1-22F)	X		EA	6						
	WATER BATH, UTILITY 120V, 1000W	N		EA	1						
	HEATER ASSEMBLY, 1000W	X		EA	1						
	SWITCH, 4 HEAT	X		FA	1						
	BEAKER, PYREX, GRIFFIN W/SPOUT, 20ML	X		EA	12						
	BEAKER, PYREX, GRIFFIN, W/SPOUT, 50ML	X		FA	1						
	BEAKER. PYREX. GRIFFIN. W/SPOUT, 100ML	X		EA	12						
	BEAKER, PYREX, GRIFFIN W/SPOUT 250ML	X		EA	12						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	BEAKER, PYREX, GRIFFIN, W/SPOUT, 400 ML	X		EA	24						
	BEAKER, PYREX, GRIFFIN W/SPOUT, 1000ML	X		EA	12						
6640-00-290-6822	BEAKER, PYREX, GRIFFIN W/SPOUT 30ML	X		EA	12						
	BEAKER, PYREX, GRIFFIN, W/SPOUT, 5 ML	X		EA	12						
	BEAKER, PYREX, GRIFFIN, W/SPOUT, 800ML	X		EA	12						
	BORER, SET, CORK	X		EA	2						
	BOTTLE, FRENCH SQUARE, W/CAP, 8 OZ.	X		EA	24						
	BOTTLE, FRENCH SQUARE W/CAP CRYSTAL, 32 OZ.	X		EA	24						
	BOTTLE, STOPPER, ROUND W/O BULB, CRYSTAL 32 OZ.	X		EA	48						
	BOTTLE, FRENCH SQUARE W/CAP, AMBER 32 OZ.	X		EA	48						
6640-00-359-9663	BOTTLE, UNSATURATION, W/GLASS STOPPER, 0% to 100%	X		EA	6						
	BOTTLE, ROUND, A/CAP, CRYSTAL, 4 OZ.	X		EA	48						
6640-00-290-6835	WASH BOTTLE, PYREX, W/2 HOLE STOPPER AND TUBES 500ML	X		EA	6						
8125-00-263-8232	BOTTLE, ROUND, W/CAP CRYSTAL, 2 OZ.	X		EA	12						
	BOTTLE, STOPPER, ROUND W/STOPPER, CRYSTAL 4 OZ.	X		EA	24						
	BOTTLE, STOPPER, ROUND, W/CORK GREEN 5 GAL	X		EA	4						
	BOTTLE, PENNYHEAD STOPPER, ROUND, CRYSTAL 2 OZ.	X		EA	12						
6640-00-379-4605	BOTTLE, DROPPING, TK, GLASS, AMBER, 60ML	X		EA	36						
	BOTTLE, STOPPER, ROUND GLASS, CRYSTAL 16 OZ.	X		EA	36						
	BRUSH, FLASK AND BOTTLE	X		EA	6						
	BRUSH, BEAKER, LARGE	X		EA	6						

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FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER 6640-00-303-4940	END ITEM DESCRIPTION PETROLEUM BASE LABORATORY ASSEMBLY	PUBLICATION NUMBER TM 5-6640-214-14	PUBLICATION DATE 21 Dec 81	QUANTITY 1
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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	BRUSH. BEAKER, SMALL	X		EA	3						
7920-00-889-3381	BRUSH. TEST TUBE. LARGE	X		EA	6						
7920-00-282-7784	BRUSH. TEST TUBE, SMALL	X		EA	6						
	BRUSH, BURETTE, SMALL	X		EA	6						
	BRUSH, PIPETTE	X		EA	6						
	BRUSH, BALANCE	X		EA	6						
	BRUSH, SINK	X		EA	2						
	BRUSH, BRASSWIRE	X		EA	2						
	BRUSH, CYLINDER, SMALL	X		EA	2						
	BRUSH, CYLINDER, LARGE	X		EA	6						
6640-00-494-3726	BULB, CIRCULATING	X		EA	12						
	BURETTE, GLASS, W/STOPCOCK, 50ML	X		EA	12						
	FLAME SPREADER, BRASS FOR BUNSEN BURNER	X		EA	3						
	BURNER, ARTIFICIAL GAS, 150 to 600 BTU	X		EA	6						
	BURNER, LPG, 2400 to 3300 BTU	X		EA	12						
	BURNER, PITTSBURG TYPE, LPG, 2400 to 3300 BTU	X		EA	6						

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						A	B	C	D	E	F
	BURNER, ALCOHOL. LAMP	X		EA	2						
	BURNER, GAS. 600 BTU	X		EA	6						
	JUG, SCREW CAP, POLY-PROPYLENE, 1 GAL	X		EA	48						
	CAN, SCREW CAP, 5 GAL	X		EA	6						
	CAN, FRICTION TOP, 2-1/2 POUND CAP	X		EA	12						
	BOTTLE, SCREW CAP, CLEAR GLASS, 32 OZ.	X		EA	160						
	CEMENT, DEKHOTTNSKY, 1 OZ.	X		EA	12						
8040-00-290-8150	CEMENT, DUCO, 1 OZ	X		EA	6						
	CHAMOIS, 18 X 14 IN.	X		EA	3						
6640-00-248-4492	CHART, KINEMATIC, VISCOSITY 25 SHEETS PER PAD	X		EA	2						
	CLAMP, BEAKER	X		EA	6						
	CLAMP, UTILITY, TWO PRONG	X		EA	4						
6640-00-962-9820	CLAMP, LAB SUPPORT ROD	X		EA	12						
	CLAMP, UTILITY, TWO PRONG ASBESTOS COVERED	X		EA	12						
6640-00-526-7989	CLAMP, VERSATILE	X		EA	6						
	CLAMP, UTILITY, TWO PRONG RUBBER SLEEVED	X		EA	12						
6640-00-290-6797	CLAMP, RUBBER TUBING SHUTOFF	X		EA	24						
	CLAMP, RUBBER TUBING, BRASS	X		EA	12						
8305-00-267-3015	CLOTH. CHEESE	X		FA	10						
	CLOCK. INTERVAL TIMER	X		EA	1						
	CLOTH EMERY NO. 00	X		EA	2						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	COTTON, ABSORBENT, 12 IN	X		EA	3						
	STOPPER, CORK, XXXX QUALITY, NO 2 inn PER RAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 3, 100 PER RA,	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 4, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 5, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 6, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 7, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 8, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 9, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 10, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 11, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 12, 100 PER BAG	X		EA	1						
6640-00-239-5408	STOPPER, CORK, XXXX QUALITY, NO. 14, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 15, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 18, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 20, 100 PER BAG	X		EA	1						

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						A	B	C	D	E	F
	STOPPER, CORK, XXXX QUALITY, NO. 22, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 24, 100 PER BAG	X		EA	1						
	STOPPER, CORK, XXXX QUALITY, NO. 26, 100 PER BAG	X		EA	1						
	SHARPENER, CORK BORER	X		EA	1						
6640-00-438-2150	PRESS, CORK, 5 to 32MM	X		EA	1						
	CORK SCREW, HAND PULL TYPE	X		EA	2						
	ROPE, ASBESTOS, 1LB SPOOL	X		EA	2						
	COTS, FINGER, ASBESTOS	X		EA	4						
	COTS, THUMB, ASBESTOS	X		EA	2						
	CRUCIBLE, IGNITION, 30ML	X		EA	12						
	CRUCIBLE, IGNITION, 50ML	X		EA	12						
	CRUCIBLE, IGNITION, 150ML	X		EA	6						
	CRUCIBLE, FILTERING, 25ML	X		EA	12						
6640-00-359-9753	HOLDER, FILTERING CRUCIBLE	X		EA	6						
	CRUCIBLE, IGNITION, 30ML	X		EA	12						
5110-00-489-8135	CUTTER, GLASS GRIFFIN TYPE	X		EA	6						
6640-00-290-6569	CYLINDER, PYREX, GRADUATED 5 ML	X		EA	6						
6640-00-290-6570	CYLINDER, PYREX, GRADUATED 10ML	X		EA	6						
	CYLINDER, PYREX, GRADUATED 25ML	X		EA	6						
	CYLINDER, PYREX, GRADUATED, 100ML	X		EA	24						
6640-00-290-6543	CYLINDER, PYREX, GRADUATED, 250ML	X		EA	12						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	CYLINDER, PYREX. GRADUATED 500ML	X		EA	6						
6640-00-290-6545	CYLINDER, PYREX, GRADUATED. 100OML	X		EA	6						
	CYLINDER, PYREX, GRADUATED, 50ML	X		EA	6						
	CYLINDER, PYREX, GRADUATED, W/STOPPER 100ML	X		EA	12						
	CYLINDER, PYREX, GRADUATED, W/STOPPER 250ML	X		EA	6						
	DESSICATOR, HEAVY GLASS, W/COVER	X		EA	6						
	COVER, DESSICATOR	X		EA	1						
	DISH, EVAPORATING, PORCELAIN 80ML	X		EA	6						
	PENCIL, DIAMOND POINT	X		EA	2						
	FLEXAFRAME, LABORATORY	X		EA	2						
	FLASK, ERLLENMEYER, PYREX W/O STOPPER, 50 ML	X		EA	12						
	FLASK, ERLLENMEYER, PYREX, W/O STOPPER 125 ML	X		EA	12						
6640-00-279-2634	FLASK, DISTILLING, 125 ML	X		EA	2						
	FLASK, ERLLENMEYER, PYREX, W/O STOPPER, 200 ML	X		EA	12						
	FLASK, ERLLENMEYER, PYREX W/O STOPPER, 300 ML	X		EA	24						
	FLASK, ERLLENMEYER, PYREX, W/O STOPPER 500 ML	X		EA	12						

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	FLASK, ERLLENMEYER, PYREX, W/O STOPPER, 1000 ML	X		EA	6						
	FLASK, LABORATORY, IODINE, 250 ML	X		EA	6						
6640-00-290-6865	FLASK, BOILING, PYREX 500 ML	X		EA	6						
	FLASK, VOLUMETRIC, PYREX 1000 ML	X		EA	6						
	FLASK, FILTERING, PYREX, W/SIDE TUBE, 1000ML	X		EA	6						
6640-00-290-6915	FUNNEL, SEPARATORY, PYREX 250 ML	X		EA	6						
6640-00-290-6900	FUNNEL, SEPARATORY, PYREX 500 ML	X		EA	6						
	FUNNEL, COMMON, GLASS 250 ML	X		EA	6						
	FUNNEL, COMMON, PYREX	X		EA	6						
6640-00-359-9814	FURNACE, MUFFLE 115V	X		EA	1						
	MUFFLE UNIT, 120V	X		EA	1						
	SYSTEM, GAS, COMPLETE W/GAGES AND CONNECTIONS	N		EA	1						
	GLOVES, ASBESTOS	X		EA	2						
	GLOVES, RUBBER	X		EA	6						
	GREASE, STOPCOCK, 10Z	X		EA	6						
6640-00-980-5002	HEATER, FUL-KONTROL, 115V 750W	X		EA	4						
6640-00-359-9647	REFRACTORY TOP	X		EA	1						
	BRUSH, CONTACT (FOR OHMITE VT8)	X		EA	1						
	CLAY, LOWER	X		EA	1						
	CLAMP, DOVETAIL	X		EA	1						
	HEATER, IMMERSION VISCOSIMETER 115V, AC/DC, 500W	X		EA	3						

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						A	B	C	D	E	F
	HOT PLATE, CIRCULAR, 3 HEAT 110V, 300 to 1200W	X		EA	3						
	CYLINDER. HYDROMETER. JAR. PYREX. 500 ML	X		EA	6						
	LABEL, GUM RED BORDERS 720 PER BOX	X		EA	6						
6685-00-255-8050	MANOMETER, U-TUBE, 100PSI	X		EA	1						
	U-TUBE, MANOMETER	X		EA	1						
	MORTAR AND PESTEL, PORCELAIN	X		EA	2						
6640-00-359-9880	OVEN, UTILITY, 35 to 180 DEGC, 115V, 300W	X		EA	1						
	MOTOR, 120V	N		EA	1						
	LAMP, PILOT RED AND WHITE	X		EA	1						
	SWITCH LINE, DPST	X		EA	1						
	PAPER, FILTER, DOUBLE ACID WASHED, WHATMAN NO. 40.	X		EA	2						
	100 EA.										
	PAPER, FILTER, UNWASHED WHATMAN NO. 12, 100 EA.	X		EA	4						
	PAPER, FILTER, 33CM DIA., 100 EA.	X		EA	2						
	SCRIBER, TUNGSTEN CARBIDE POINT	X		EA	2						
	CRAYON, MARKING, RED	X		EA	12						

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6640-00-437-8000	PIPETTE, VOLUMETRIC, 5 ML	X		EA	6						
	PIPETTE, VOLUMETRIC, 50 ML	X		EA	6						
	PIPETTE, VOLUMETRIC, 25 ML	X		EA	6						
	PIPETTE, VOLUMETRIC, 10 ML	X		EA	6						
	SCRAPER, LABORATORY, RUBBER	X		EA	12						
	PUMP, VACUUM, 2.5 CFPM, 110V, 60HZ	N		EA	2						
	V BELT	X		EA	1						
	PLATE, SPOT TEST, PORCELAIN SIZE NO. 1	X		EA	2						
	RING, CORK, 108MM DIA.	X		EA	6						
	STOPPER, RUBBER, 2 HOLE ASSTD SIZES, 20 EA. PER PD.	X		EA	10						
6640-00-232-6004	STOPPER, RUBBER, SOLID, ASSTD SIZES, 20 EA. PER PD.	X		EA	9						
5110-00-223-6371	SHEARS, TRIMMERS, 8 IN.	X		EA	3						
	SHEARS, TRIMMERS, 10 IN.	X		EA	2						
	COPPER, SHEET, PLAIN	X		EA	1						
	RULE, SLIDE, VERSALOG	X		EA	2						
	INDICATOR, SPEED, 100 to 4000 RPM	X		EA	1						
6640-00-359-9958	SPLASH, ELIMINATOR, FILTER PUMP	X		EA	3						
	SPONGE, CELLULOSE, 12 EA.	X		EA	1						
	SPATULA, 4 IN. STEEL BLADE	X		EA	6						
6640-00-592-8037	SPATULA, 6 IN. STEEL BLADE	X		EA	6						
	STRETCHER. RUBBER TUBING	X		EA	6						

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						A	B	C	D	E	F
	STOPCOCK, BRASS, 3/8 IN. IPS	X		EA	24						
6640-00-494-3774	STIRRER, ELECTRIC, 115V, 50/60HZ	X		EA	2						
	STEEL STRIPS	X		EA	6						
	STOPCOCK, PYREX 2 WAY	X		EA	6						
	TRIPOD, LABORATORY APPARATUS	X		EA	4						
	STAND, LABORATORY APPARATUS 9 IN. BASE	X		EA	6						
	STAND, LABORATORY APPARATUS, 11 IN. BASE			EA	6						
	RING, LABORATORY APPARATUS 4-1/2 IN. ID			EA	3						
	RING, LABORATORY APPARATUS 3-1/2 IN. ID			EA	3						
	RING, LABORATORY APPARATUS 3-3/8 IN. ID			EA	3						
	TAPE GAGING, 50 FT	X		EA	3						
8135-00-292-2347	TAG, SHIPPING, CLOTH W/WIRE FASTENERS	X		EA	1000						
6685-00-191-3213	THERMOMETER, +293 to +401 DEGF. (ASTM 68F)	X		FA	1						
6685-00-191-3214	THERMOMETER, +77 to +131 DEGF, (ASTM 64F)	X		FA	1						
	THERMOMETER, +0 to +180 DEGF (ASTM NO. 59F)	X		EA	4						
6685-00-247-3747	THERMOMETER, -4 to +304 DEGF	X		EA	6						

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	THERMOMETER, -20 to +150 DEGC, (ASTM NO. 1C)	X		EA	6						
	THERMO-REGULATOR, -35 to +700 DEGF	X		EA	2						
	THERMO-REGULATOR GUARD	X		EA	1						
	THIEF, DRUM	X		EA	6						
	THIEF, SAMPLING	X		EA	6						
	TONGS, CRUCIBLE, 9 IN. LG	X		EA	4						
6640-00-360-0021	TONGS, UTILITY, 7 IN. LG	X		EA	2						
6640-00-360-0018	TONGS, CRUCIBLE, 20 IN. LG	X		EA	1						
6640-00-360-0013	TONGS, BEAKER, 13 IN. LG	X		EA	2						
6640-00-359-9805	FORCEPS, GOOSENECK, 150MM	X		EA	2						
	TRIANGLE, WIRE, W/SILICA SLEEVES, 1-1/2 IN.	X		EA	6						
	TRIANGLE, WIRE, W/SILICA SLEEVES 2 IN.	X		EA	6						
	TRIANGLE, WIRE, W/SILICA SLEEVES 2-1/2 IN.	X		EA	6						
6640-00-298-7258	TEST TUBE PYREX, IGNITION TYPE, 150MM LG	X		EA	12						
	TUBING, ROUND BOROSILICATE GLASS, 48 IN. LG, 6MM OD	X		EA	10						
	TUBING, ROUND BOROSILICATE GLASS, 48 IN. LG, 8MM OD	X		EA	10						
	TUBING, ROUND, BOROSILICATE GLASS, 48 IN. LG, 10MM OD	X		EA	10						
	TUBING, ROUND, BOROSILICATE GLASS, 48 IN. LG, 13MM OD	X		EA	10						
	TUBE. RUBBER. BLACK 4/8 IN, ID	X		EA	25						

\* WHEN USED AS A  
 HAND RECEIPT, enter Hand Receipt Annex Number  
 HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes  
 HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC)

HAND RECEIPT/ANNEX NUMBER <i>For use of this form, see DA PAM 710-2-1.                  The proponent agency is ODCSLOG</i>		FROM	TO	HAND RECEIPT NUMBER
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FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER 6640-00-303-4940	END ITEM DESCRIPTION PETROLEUM BASE LABORATORY ASSEMBLY	PUBLICATION NUMBER TM 5-6640-214-14	PUBLICATION DATE 21 Dec 81	QUANTITY 1
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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
4720-00-961-3520	TUBE, RUBBER, BLACK, 3/16 IN. ID	X		EA	25						
	TUBE, RUBBER, BLACK, 1/4 IN. ID	X		EA	25						
4720-00-235-5494	TUBE, RUBBER, 1/8 IN. WALL, BLACK 1/8 IN. ID	X		EA	25						
	TUBE, RUBBER, 1/16 IN. WALL, BLACK 3/16 IN. ID	X.		EA	50						
4720-00-684-6260	TUBE, RUBBER, 1/16 IN. WALL, BLACK 1/4 IN. ID	X		EA	50						
4720-00-260-6869	TUBE, RUBBER, 1/16 IN. WALL, BLACK 5/16 IN. ID										
	TUBING, PRESSURE AND VACUUM, 1/8 IN. ID	X		EA	25						
	TUBING, PRESSURE AND VACUUM, 3/16 IN. ID	X		EA	25						
	TUBING. PRESSURE AND VACUUM, 1/4 IN. ID	X		EA	25						
	WATCH, STOP, 60 SECOND	N		EA	8						
	WATCH, GLASS, 50MM DIA.	X		EA	12						
6640-00-290-6808	WATCH, GLASS, 65MM DIA.	X		EA	12						
6640-00-290-6811	WATCH, GLASS, 100MM DIA.	X		EA	12						
	DISTILLING APPARATUS, 2600W, AC, 115V, 50/60HZ	N		EA	1						
	HEATER, W/GASKET	X		EA	1						
	CUT-OFF, AUTOMATIC, FOR DISTILLATION APPARATUS	X		EA	1						

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						A	B	C	D	E	F
	WATER INDICATING PASTE 3 OZ.	X		EA	12						
5350-00-242-4404	WOOL, STEEL, NO. 11 LB PKG.	X		EA	3						
5350-00-242-4405	WOOL, STEEL, NO. 0 1 LB PKG.	X		EA	3						
6640-00-264-5014	WOOL, GLASS, FILTERING 1 LB	X		EA	2						
	MICROSCOPE, CHAMOT, BAUSCH AND LOMB, TYPE M	X		EA	1						
	GOGGLES, GAS TIGHT	X		EA	1						
6625-00-691-6605	VOLT-OHM MILLIAMETER, AC/DC	N		EA	1						
	METER, CONDUCTIVITY, PORTABLE	N		EA	2						
	KIT, CABLE EXTENSION	N		EA	1						
4930-00-274-5713	OILER, HAND, 1/4 PT	X		EA	1						
5120-00-278-1282	SCREWDRIVER, 3 IN. BLADE, STANDARD	X		EA	2						
5120-00-278-1283	SCREWDRIVER, 6 IN. BLADE, STANDARD	X		EA	2						
3439-00-188-6988	SOLDER, RESIN CORE, 1 LB	X		EA	2						
3439-00-812-1294	SOLDER, ACID CORE, 1 LB	X		EA	2						
	STOOL, LABORATORY, 30 IN. TALL	X		EA	4						
5120-00-277-1483	WRENCH, PIPE, ADJ. 6 IN.	X		EA	2						
5120-00-277-1484	WRENCH, PIPE, ADJ. 8 IN.	X		EA	2						
5120-00-277-1485	WRENCH, PIPE, ADJ. 10 IN.	X		EA	1						
5120-00-277-1486	WRENCH, PIPE, ADJ. 14 IN.	X		EA	1						
5120-00-277-1461	WRENCH, PIPE, ADJ. 18 IN.	X		EA	1						
5120-00-264-3795	WRENCH, CRESCENT, ADJ. 6 IN.	X		EA	2						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
5120-00-240-5328	WRENCH, CRESCENT, ADJ. 8 IN.	X		EA	2						
5120-00-449-8083	WRENCH, CRESCENT, ADJ. 10 IN.	X		EA	2						
5120-00-264-3796	WRENCH, CRESCENT, ADJ. 12 IN.	X		EA	1						
5120-00-423-6728	WRENCH, CRESCENT, ADJ. 15 IN.	X		EA	1						
	GUN, SOLDERING, ELECTRIC	X		EA	1						
	APRON, RUBBER	X		EA	6						
4730-00-011-8539	UNIT NUT, TUBE, 3/8 IN. OD	X		EA	6						
	ELBOW, UNION, TUBE, 3/8 IN. OD	X		EA	6						
4730-00-639-9676	ELBOW, MALE, TUBE, 3/8 IN. OD	X		EA	6						
4730-00-266-0538	CONNECTOR, MALE, TUBE, 3/8 OD	X		EA	6						
	TEE, UNION, 3/8 IN. OD	X		EA	6						
	TEE, MALE RUN, 3/8 IN. OD	X		EA	6						
4820-00-262-7020	VALVE, GLOBE, BRASS, 1/4 IN.	X		EA	6						
	VALVE, GLOBE, BRASS, 3/8 IN.	X		EA	6						
6640-00-310-8558	HOOD, CHEMICAL, W/BLOWER	X		EA	1						
	SINK, LABORATORY	X		EA	1						

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	g. QUANTITY					
						A	B	C	D	E	F
	VISCOSIMETER, KINEMATIC, REFRIGERATED	N		EA	1						
	COMPRESSOR, AIR, 2 STAGE 200 PSI, EMD, 110/220V	N		EA	1						
	VALVE PLATE	X		EA	2						
4310-00-423-3576	VALVE, INLET AND DISCHARGE	X		EA	4						
	SPRING, PILOT VALVE	X		EA	1						
	CLEANER, PAD, AIR INLET	X		EA	4						
	SWITCH, MOTOR PROTECTION	X		EA	1						
	REFRIGERATOR, ELECTRIC 11 CUBIC FEET	N		EA	1						
6640-00-377-9383	FREEZING POINT APPARATUS	N		EA	2						
	TUBE, INNER	X		EA	1						
	FLASK, DEWAR	X		EA	1						
	TOP AND STIRRER	X		EA	1						
6640-00-359-9628	FOAM TEST APPARATUS	X		EA	1						
	AERATOR	X		EA	1						
6640-00-403-9339	CYLINDER, PYREX	X		EA	1						
6685-00-242-2224	THERMOMETER, -5 to +215 DEGF (ASTM NO. 12F)	X		EA	1						
	SAMPLER, OIL, 1 QT	X		EA	4						
	STRIP, COPPER, 12 PER PKG	X		EA	1						
	STANDARDS CORROSION	X		EA	1						
	TAPE, OIL, GAGING 50 FT	X		EA	3						
	BOB, PLUM, BRASS, 20 OZ	X		EA	3						

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STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
6810-00-221-1415	CH COOH 3 ACETIC ACID, GLACIAL ACS 1 LB BOTTLE,	X		EA	2						
	CH COOH 3 3 ACETONE, SPECTRANALYZED ACS, 1 QT BOTTLE,	X		EA	5						
	POCKET TESTER, INSTAND PH RANGE of 2 THRU 10	X		EA	5						
6810-00-234-7209	CHI COONH 3 4 AMMONIUM ACETATE, CRYSTAL ACS 1 LB BOTTLE,	X									
6810-00-222-9680	NH C1 4 AMMONIUM CHLORIDE, CRYSTAL ACS, 2.2 LB BOTTLE,	X		EA	1						
	NH OH 4 AMMONIUM HYDROXIDE, REAGENT ACS, 1 LB BOTTLE,	X		EA	8						
	NH 1 4 AMMONIUM IODIDE. CRYSTAL ACS, 1/4 LB BOTTLE.	X		EA	1						
	AMMONIUM MOLYBDATE, CRYSTAL ACS, 500g BOTTLE,	X		EA	1						
	(NH) M0 0 4H 0 4 6 7 24 2										
6810-00-207-9050	NH NO 4 3 AMMONIUM NITRATE, CRYSTAL ACS, 1 KG BOTTLE,	X		EA	1						
	AMMONIUM OXALATE, CRYSTAL ACS, 500g BOTTLE,	X		EA	1						
	(NH) C 0 -H 0 4 2 2 4 2										
6810-00-264-6546	AMMONIUM SULFATE, SULFATE GRANULAR, ACS, 1 KG BOTTLE	X		EA	1						
	(NH) SO 4 2 4										
	ISOPROPYL ALCOHOL, REAGENT ACS, 1 GAL. BOTTLE,	X		EA	1						
	CH CHOCH 3 3										

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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH	g. QUANTITY					
						A	B	C	D	E	F
	ANILINE (AMINO-BENZENE) ACS, 1 PT BOTTLE, 2 <span style="float: right;">C H NH 6 5</span>	X		EA	4						
	ASBESTOS, LONG FIBER, ACID WASHED, FOR GOOCH CRUCIBLES, 1 LB	X		EA	1						
	BARIUM CHLORIDE, ANHYDROUS PURIFIED, 1 LB	X		EA	1						
	BARIUM HYDROXIDE ANHYDROUS, POWDER 1 LB z <span style="float: right;">B (OH) a</span>	X		EA	1						
	SODIUM PEROXIDE, GRANULAR ACS, 1 LB, 2 <span style="float: right;">Na 0 2</span>	X		EA	1						
	BENZOIC ACID, PRIMARY STANDARD, REAGENT	X		EA	1						
	CRYSTAL ACS, 1/4 LB, <span style="float: right;">C H COOH 6 5</span>										
	BROMINE, REAGENT, ACS 1/4 LB	X		EA	1						
	CALCIUM CHLORIDE REAGFNT ACS, 8 MESH, 5 IB, 2 <span style="float: right;">CaCl</span>	X		EA	5						
	CARBON TETRACHLORIDE, TECHNICAL, 5 GAL.	X		EA	1						
	CELITE (ANALYTICAL FILTER AID) 300g	X		EA	1						
	CHLOROFORM, SPECTRANALYZED ACS, 1 QT, 3 <span style="float: right;">CHCl</span>	X		EA	1						
	COBALT (OUS) CHLORIDE CRYSTAL, ACS, 1/4 LB, CoCl -6H 0 2 2	X		EA	1						
	CUPRIC SULFATE POWDER TECHNICAL, 5 LB	X		EA	1						
	ALCOHOL REAGENT, 1 GAL.	X		EA	1						
	ETHYLENE GLYCOL TECHNICAL 1 GAL.	X		EA	5						
	FERRIS CHLORIDE REAGENT ACS, LUMP, 1 LB, 0 <span style="float: right;">FeCl -6H2 3</span>	X		EA	1						
	GLYCEROL, REAGENT, ACS 1 PT	X		EA	1						
	HYDROCHLORIC ACID, REAGENT ACS, 1 PT, <span style="float: right;">HCl</span>	X		EA	30						

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FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER 6640-00-303-4940	END ITEM DESCRIPTION PETROLEUM BASE LABORATORY ASSEMBLY	PUBLICATION NUMBER TM 5-6640-214-14	PUBLICATION DATE 21 Dec 81	QUANTITY 1
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STOCK NUMBER <i>a.</i>	ITEM DESCRIPTION <i>b.</i>	*	SEC	UI	QTY AUTH <i>f.</i>	QUANTITY <i>g.</i>					
						A	B	C	D	E	F
	HYDROFLOURIC ACID, REAGENT ACS, 1 LB, HF	X		EA	1						
	HYDROGEN PEROXIDE TECHNICAL, 1 PT, 8 HYDROXYQUINOLINE (ORTHO) ACS, 1/4 LB,	X		EA	10						
	HOC H N-CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>										
	IODINE, RESUBLIMED CRYSTAL, ACS, 1 LB, I	X		EA	1						
	FERROUS SULFIDE GRANULAR, 1 LB, FeS	X		EA	1						
6810-00-271-1405	LEAD ACETATE, NORMAL ACS, 1 LB Pb (C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	X		EA	1						
	LEAD OXIDE, MONO, YELLOW POWDER 1 LB, PbO	X		EA	1						
6810-00-281-7453	MERCURY, METAL INSTRUMENT GRADE, ACS, 6 LB, 9 H	X		EA	1						
6810-00-753-4783	METHANOL (METHYL ALCOHOL) ACS, 3 1 GAL. CH <sub>3</sub> OH	X		EA	5						
6810-00-281-2785	METHYL ETHYL KETONE TECHNICAL, 1 GAL	X		EA	5						
6810-00-227-1259	METHYL ORANGE (INDICATOR) ACS, 1/4 LB,	X		EA	1						
	4-NaOSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>										
	METHYL RED HYDRO CHLORIDE ACS 1 OZ	X		EA	2						
6810-00-237-2954	NITRIC ACID, REAGENT ACS, 1 PT HNO <sub>3</sub>	X		EA	3						
	XYLENE (XYLOL) TECHNICAL 5 GAL.	X		EA	1						

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						A	B	C	D	E	F
	XYLENE, PURIFIED, 1 GAL. C H (CH) 6 4 3 2	X		EA	5						
	OLEIC ACID, TECHNICAL 1 PT	X		EA	1						
	P-NITROPHENOL, REAGENT FLAKE, 100G NO H DH 26 4	X		EA	1						
6810-00-223-7612	PHENOLPHTHAIEIN, ACS C H COOC (C H -4-OH) 6 4 6 4 2 1 OZ.	X		EA	8						
6810-00-753-4990	PETROLEUM ETHER ACS 1 QT.	X		EA	5						
	PHOSPHORUS PENTOXIDE ACS 1 LB, P O 2 5	X		EA	1						
	POTASSIUM BROMIDE, ACS, 1 LB, KBr	X		EA	1						
	POTASSIUM CHLORIDE, CRYSTAL, ACS 1 KG KCL.	X		EA	1						
6810-00-236-5369	POTASSIUM CHROMIATE GRANULAR, ACS, 5 LB, K C O 2 r 4	X		EA	10						
6810-00-222-9675	POTASSIUM, DICHROMATE CRYSTAL, ACS, 1 LB, K Cr O 2 2 7	X		EA	10						
	POTASSIUM FERROCYNIDE CRYSTAL, ACS, 1 LB, K Fe (CN) 3H 0 4 6 2	X		EA	1						
6810-00-281-9827	POTASSIUM HYDROXIDE PELLETS, ACS, 1 LB, KOH	X		EA	5						
	POTASSIUM IODIDE, GRANULAR, ACS, 1 LB, KI	X									
	POTASSIUM NITRATE CRYSTAL, ACS, 1 LB, KNO 3	X		EA	1						
6810-00-222-9665	POTASSIUM PERMANGANATE CRYSTAL, ACS, 1 LB KMNO 4	X		EA	1						
6810-00-233-0126	SILVER NITRATE CRYSTAL ACS, 1/4 LB, AgNO 3	X		EA	1						
6810-00-264-6593	SODIUM CHLORIDE CRYSTAL, 1 LB, NaCl	X		EA	10						
6810-00-234-8373	SODIUM HYDROXIDE, PELLETS, ACS, 5 LB, NaOH	X		EA	2						
6810-00-233-0118	SODIUM NITRATE, CRYSTAL, ACS, 1 KG, NaNO3	X		EA	1						
	SODIUM OXALATE PRIMARY STANDARD ACS, 1 LB, Na C O 2 2 4	X		EA	1						

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STOCK NUMBER a.	ITEM DESCRIPTION b.	*	SEC	UI	QTY AUTH f.	g. QUANTITY					
						A	B	C	D	E	F
	Na 0										
	SODIUM PEROXIDE, GRANULAR ACS, 1 LB,	X		EA	1						
6810-00-234-8377	SODIUM SULFATE ANHYDROUS GRANULAR, ACS, 1 LB	X		EA	2						
	Na SO										
	2 4										
	NaS 0 5H 0										
6810-00-234-8380	SODIUM THIOSULFATE CRYSTAL, ACS, 1 LB,	X		EA	1						
	STARCH CORN, POWDER, LABORATORY GRADE 1 LB	X		EA	2						
	SOLVENT, STODDARD 54 GAL.	X		EA	1						
6810-00-282-9710	SULFUR SUBLIMED (SULFUR FLOWERS) POWDER	X		EA	1						
	LABORATORY GRADE 1 LB										
	SULFURIC ACID, REAGENT ACS, 1 PT (2LB)	X		EA	18						
	C H O										
	76 52 46										
	TANNIC ACID, POWDER, 1 LB	X		EA	1						
	TRIPOLI POWDER 1 LB	X		EA	5						
	ZINC OXIDE, DRY PROCESS POWDER, ACS, 1 LB, ZNO	X		EA	1						
6685-00-194-1707	THERMOMETER TESTING SET, ASTM CERTIFIED FAHRENHEIT										
	CONSISTING OF.										
	-36° F to +35° F	X		EA	1						
	+18° F to +89° F	X		EA	1						

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						A	B	C	D	E	F
	+77° F to +131° F	X		EA	1						
	+122° F to +176° F	X		EA	1						
	+167° F to +221° F	X		EA	1						
	+203° F to +311° F	X		EA	1						
	+293° F to +401° F	X		EA	1						
	+383° F to +581° F	X		EA	1						
	+563° F to +761° F	X		EA	1						
	CHANNELED CARRYING CASE	X		EA	1						

By Order of the Secretary of the Army:

Official:

JOHN H. WICKHAM, JR.  
*General, United States Army*  
*Chief of Staff*

DONALD J. DELANDRO  
*Brigadier General, United States Army*  
*The Adjutant General*

**DISTRIBUTION:**

To be distributed in accordance with DA Form 12-25A, Organizational Maintenance Requirements for Equipment, Miscellaneous: Petroleum Distribution.

# The Metric System and Equivalents

## Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 decameter = 10 meters = 32.8 feet  
 1 hectometer = 10 decameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

## Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigram = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

## Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 deciliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 deciliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

## Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. decameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. decameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

## Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

## Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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**PIN : 050991-000**