

Southwest Research Institute

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 131663E

Page: 1
Date Printed: 06/08/2001

Order To: ALFA AESAR
A JOHNSON MATTHEY COMPANY
CUST. #56027609
WARD HILL, MA 018358099

112028

Ship To: Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: CYNTHIA Ph: 800-343-1990 Fax: 800-322-4757

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
06/08/01	J. Evans	NET 30	SHIPPING POINT	5421111	FED-X P-1	Y. PAN/B. 57 X6640

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the contractor shall follow all requirements of the Defense Allocations System Regulation (15 CFR Part 700).								
1	MISC LEAD (II) NITRATE, ACS, 99.0% MIN., 500g STOCK NO. 14243 Req: 965292		EA	06/19/01	06/06/01	1.0000	27.5000	\$27.50
	Additional Charges: 002 HAZARDOUS PACKAGING CHARGE							\$10.00
	Additional Charges: 02 Handling							\$5.00
	Prime Contract #: NRC0297009 Priority: NONE							
	AOP: 704-000 1.20 01402.571 100.00%							
	Prime Contract #: NRC0297009 Priority: NONE							
	AOP: 704-000 1.20 01402.571 0.00%							
								\$42.50
QUALITY & TECHNICAL REQUIREMENTS: CERTIFICATE OF ANALYSIS REQUIRED WITH ORDER. MATERIAL CERTIFICATION SHALL ACCOMPANY EACH LOT OF ITEMS SHIPPED. CERTIFICATION SHALL VERIFY CONFORMANCE TO APPLICABLE SPECIFICATION(S) AND REFERENCE THE APPLICABLE HEAT NUMBER, LOT/BATCH NUMBER OR DATE CODE. MATERIAL SHALL BE IDENTIFIED BY HEAT NUMBER IF APPLICABLE. MILL TEST REPORT SHALL ACCOMPANY EACH LOT OF ITEMS SHIPPED. TEST REPORT SHALL BE IN THE FORM OF A PRODUCTION BATCH ANALYSIS OR LADLE ANALYSIS. CHEMICAL AND/OR PHYSICAL TEST DATA SHALL BE PROVIDED. MATERIAL SHALL BE IDENTIFIED BY HEAT NUMBER IF APPLICABLE. THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN 5 WORKING DAYS.								

Southwest Research Institute

6220 Culebra Road
 San Antonio, TX 78238-5166

Purchase Order: 131663E

Page: 2
 Date Printed: 06/08/2001

Order To: ALFA AESAR 112028
 A JOHNSON MATTHEY COMPANY
 CUST. #56027609
 WARD HILL, MA 018358099

Contact: CYNTHIA Ph: 800-343-1990 Fax: 800-322-4757

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
08/01	J. Evans	NET 30	SHIPPING POINT	5421111	FED-X P-1	Y. PAN/B. 57 X6640

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>Bill To: Southwest Research Institute P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510</p> <p>_____ Authorized Signatures</p>							
							PO Total Amt:	\$42.50

Order To: ALFA AESAR
A JOHNSON MATTHEY COMPANY
CUST. #56027609
WARD HILL, MA 018358099

112028

Ship To: Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: DENISE Ph: 800-343-1990 Fax: 800-322-4757

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
05/21/01	J. Evans	NET 30	SHIPPING POINT	5417085	FED-X P-1	Y-M. PAN/B. 57 X6640		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	MISC LEAD (III), REAGENT GRADE, 99%, 500g, STOCK NO. 12349 Req: 572917 Prime Contract #: NRC0297009 AOP: 704-000 1.20 QUALITY & TECHNICAL REQUIREMENTS: CERTIFICATE OF ANALYSIS TO BE SUPPLIED WITH SHIPMENT. MATERIAL CERTIFICATION SHALL ACCOMPANY EACH LOT OF ITEMS SHIPPED. CERTIFICATION SHALL VERIFY CONFORMANCE TO APPLICABLE SPECIFICATION(S) AND REFERENCE THE APPLICABLE HEAT NUMBER, LOT/BATCH NUMBER OR DATE CODE. MATERIAL SHALL BE IDENTIFIED BY HEAT NUMBER IF APPLICABLE. MILL TEST REPORT SHALL ACCOMPANY EACH LOT OF ITEMS SHIPPED. TEST REPORT SHALL BE IN THE FORM OF A PRODUCTION BATCH ANALYSIS OR LADLE ANALYSIS. CHEMICAL AND/OR PHYSICAL TEST DATA SHALL BE PROVIDED. MATERIAL SHALL BE IDENTIFIED BY HEAT NUMBER IF APPLICABLE. RECEIVING DO NOT INSPECT. THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN 5 WORKING DAYS. "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR,		EA	05/28/01	05/21/01	4.0000	40.7000	\$162.80

Southwest Research Institute

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 131530E

Page: 2
Date Printed: 05/23/2001

Order To: ALFA AESAR 112028
A JOHNSON MATTHEY COMPANY
CUST. #56027609
WARD HILL, MA 018358099

Contact: DENISE Ph: 800-343-1990 Fax: 800-322-4757

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
05/01/01	J. Evans	NET 30	SHIPPING POINT	5417085	FED-X P-1	Y-M. PAN/B. 57 X6640

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST	
	PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."								
	Bill To: Southwest Research Institute P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510								
	<hr/> Authorized Signatures								
							PO Total Amt:	\$162.80	

Southwest Research Institute
 6220 Culebra Road
 San Antonio, TX 78238-5166

Purchase Order: 183724S

Page: 1
 Date Printed: 03/05/2001

Order To: METAL SAMPLES, INC.
 ROUTE 1, BOX 152
 MUNFORD, AL 36268

104367

Ship To: Southwest Research Institute
 6220 Culebra Road
 San Antonio, TX 78238-5166

Contact: BEN LACKEY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
03/05/01	Jimmie Silvers	NET 30	SHIPPING POINT		FED EXP P1	D. DUNN/B. 57 X6090

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the contractor shall follow all requirements of the Defense Allocations System Regulation (15 CFR Part 700).							
1	MISC		EA	03/23/01	03/23/01	8.0000	280.0000	\$2,240.00
	C22 COMPACT TENSION SPECIMEN PER SwRI DRAWING NO. 06-2795-1 NOTE: METAL SAMPLES TO PERFORM A DOCUMENTED INSPECTION AND PROVIDE EACH PIECE DOCUMENTATION TO D. DUNN. Req: 550166 QC Insp Required Prime Contract #: NRC0297009 Priority: NONE AOP: 704-000 1.20 01402.571 QUALITY & TECHNICAL REQUIREMENTS: ALL SPECIMENS MACHINED FROM ALLOY 22 HEAT 2277-8-3175 SUPPLIED BY SwRI. SPECIMEN DIMENSIONS PER 06-2795-1. RETURN UNUSED MATERIAL. CERTIFIED INSPECTION/TEST DATA IS REQUIRED WITH SHIPMENT OF PARTS, MATERIALS, AND FOR SERVICES. THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN 5 WORKING DAYS. Bill To: Southwest Research Institute P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510							
							PO Total Amt:	\$2,240.00

Southwest Research Institute
 6220 Culebra Road
 San Antonio, TX 78238-5166

Purchase Order: 183724S

Page: 2
 Date Printed: 03/05/2001

Order To: METAL SAMPLES, INC.
 ROUTE 1, BOX 152
 MUNFORD, AL 36268

104367

Contact: BEN LACKEY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
03/05/01	Jimmie Silvers	NET 30	SHIPPING POINT		FED EXP P1	D. DUNN/B. 57 X6090

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Authorized Signatures							



PURCHASE REQUISITION
SOUTHWEST RESEARCH INSTITUTE

"Attach Memos, quotations and any other correspondence."

PURCHASE ORDER NO.	REQ. NO. 550166
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VENDOR		DATE OF ORDER	SHIP VIA	SUGGESTED SUPPLIER Metal Samples	
		F.O.B. POINT	TERMS	152 Metal Samples Road/P.O. Box 8	
		CONTRACT NO.		Munford, AL 36268	
VENDOR CODE	ATTN:	PHONE	PRIORITY	PHONE 256/35804202	FAX 256/358-4513

ITEM	QTY.	UNIT	DESCRIPTION	ITEM IDENTIFIER	EST. COST EA.	UNIT PRICE	AMOUNT
A	8	EA	C22 compact tension specimen per SwRI drawing				
			no. 06-2795-1			\$280.00	
			Quality & Technical Requirements: All specimens				
			<i>From B&W</i> machined Alloy 22 heat 227708-3175 supplied				
			by SwRI. Specimen dimensions per 06-2795-1. Return				
			unused material.				
			<i>NOTE: METAL SAMPLES TO perform</i>				
			<i>A documented inspection and provide</i>				
			<i>each piece documentation to D. Dunn.</i>				
						TOTAL	

DATE REQUIRED 3/19/01	REQUISITION DATE 3/1/01	TO BE USED FOR Tests (GI)	DELIVER TO NAME/LOCATION D. Dunn/bldg. 57	SPECIAL INSTRUCTIONS Send all paperwork to R. Ard/bldg. 189	
ACCOUNT NO.(s) 20.01402.571	REQUESTOR'S SIGNATURE Darrell Dunn	EXT.NO. 6090	DATE 3/1/2001	1. If you have specified a brand name, would an equivalent brand or product also satisfy your need? <input type="checkbox"/> YES <input type="checkbox"/> NO	2. If you have suggested a supplier for the item or service, could other suppliers meet your requirements? <input type="checkbox"/> YES <input type="checkbox"/> NO
	DEPARTMENTAL/DIVISIONAL APPROVAL <i>[Signature]</i>	DATE 3/1/2001	ADMIN. APPROVAL <i>[Signature]</i>	If "NO", and total estimate exceeds \$3000.00, attach a memo of explanation.	If "NO", and total estimate exceeds \$3000.00, attach a memo of explanation.
4. Government Project? <input type="checkbox"/> YES <input type="checkbox"/> NO	b. If "NO", will it be attached to, built into, or used as an accessory to a piece of equipment either in existence or to be constructed? <input type="checkbox"/> YES <input type="checkbox"/> NO	d. Is government furnished property being sent to vendor <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	f. QA Footnotes: Q12	3. If this requisition is for a repair-is the repair on campus or off campus? <input type="checkbox"/> ON <input type="checkbox"/> OFF	
If the item is being charged to a government contract: a. Will it be substantially consumed, destroyed, or exhausted during the performance of the project? <input type="checkbox"/> YES <input type="checkbox"/> NO	c. If "NO", is the item uniquely required to instrument the project that is funding the purchase? <input type="checkbox"/> YES <input type="checkbox"/> NO	e. QA Approval (if required) <i>Dunn/Mala</i> 3/2/2001	g. Inspection Criteria: METAL SAMPLES TO provide documented inspection.	5. Do you want receiving to open and inspect your shipment? <input type="checkbox"/> YES <input type="checkbox"/> NO	
CONTRACT ADMINISTRATOR	DATE	BUYER SIGNATURE	DATE	EXPEDITE DATE	SEE INSTRUCTIONS ON REVERSE SIDE

QUOTE

Metal Samples Company
P.O. Box 8
152 Metal Samples Road
Munford, AL 36268

Phone: (256)358-4202
Fax: (256)358-4515

Quote Number: 26874
Page: 1

Quote To:

DARRELL DUNN
SOUTHWEST RESEARCH INSTITUTE
P.O. BOX 28510
SAN ANTONIO TX 78228-0510
USA

Date: 02/28/01

Expires: 03/30/01

Reference:

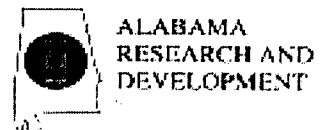
Sales Person: BENJAMIN J. LACKEY

Line	Part Number	Description	Revision	Drawing #
1	CU014820154	C22(CSM) 1T PLAN C/T SPEC		
Lead Time: SHIP : 2 WEEKS ARO				
<i>1T PLAN COMPACT TENSION SPECIMEN, PER SwRI DRWG# 06-2795-1</i>				
<i>- TO BE MACHINED FROM HASTELLOY C22 CUSTOMER SUPPLIED MATERIAL (CSM).</i>				
				Quantity UM
				8.00 EA @
			Unit Price UM	
			280.00 EA	

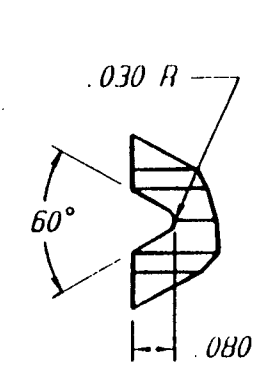
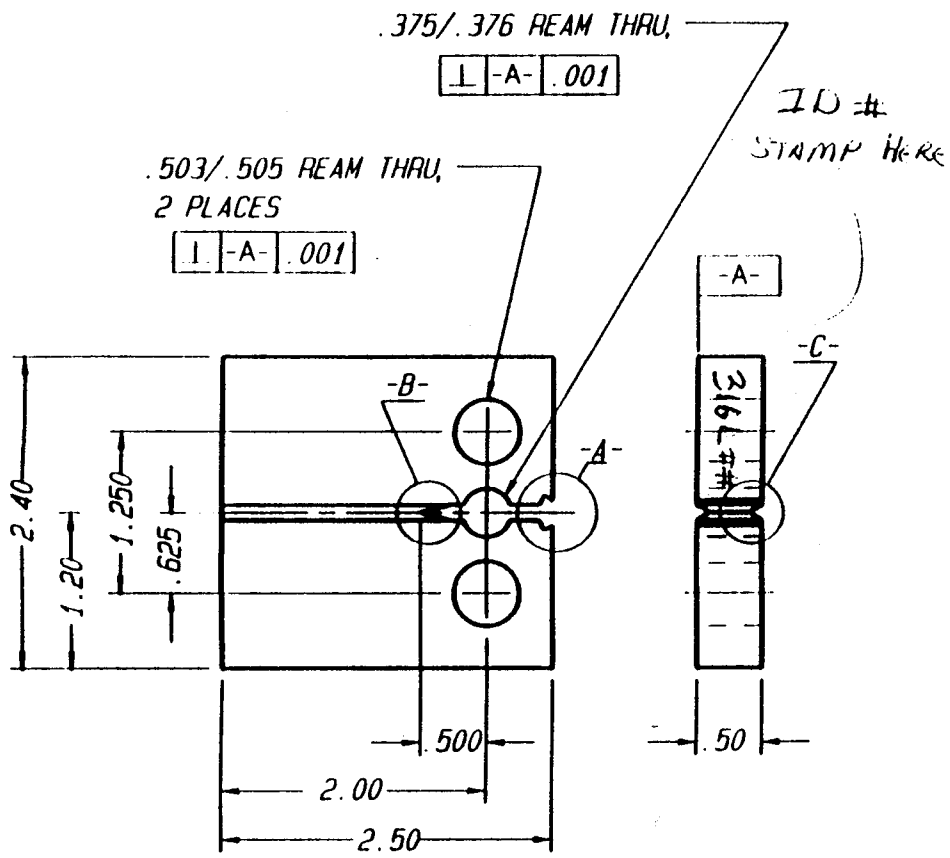
AVAILABLE TO SHIP 2 WEEKS AFTER RECEIPT OF ORDER AND MATERIAL.

THANK YOU FOR YOUR INQUIRY. IF YOU HAVE ANY QUESTIONS, PLEASE LET ME KNOW.

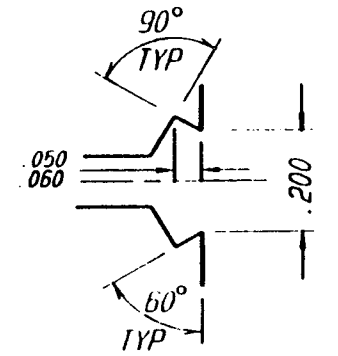
Please check the above information for accuracy. Standard terms and conditions apply if this quote becomes an order. Following industry standard, quantities listed above may vary within plus or minus ten percent. Thank you for the opportunity to present this quotation.



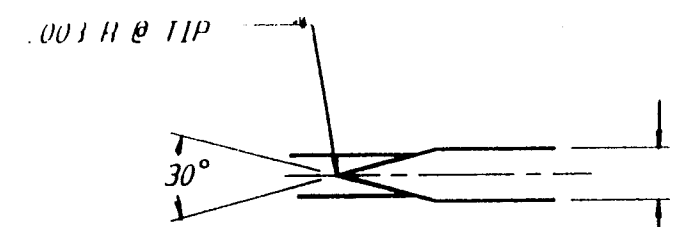
Visit our Web Site at www.alspi.com



DETAIL -C-



DETAIL -A-



DETAIL -B-

FIND NO.	QTY REQ.	SIZE	CODE IDENT NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST					
MATERIAL		BASIC DIMENSIONS		CONTRACT	
FINISH ALL SURFACES 16 RMS		UNDER 6	± .01	± .001	± 1/32
		6-24 INCL	± .03	± .010	± 1/16
		OVER 24	± .06	± .015	± 1/8
		ANGLES	± 0° 30'		± 1° 0'
USED ON		D: SPEC 11N4SPC		SOUTHWEST RESEARCH INSTITUTE	
QTY. REQ.				2-7-1995	
				A. NAGY	
				MECH	
				ELECT	
				DRAWING NO. 06-2795-1	
				SCALE 1 = 1	
				SHEET	

REVIEW: *Darrell D* 6/8/2000 EM: *N. Smith* 1/8/2000

Southwest Research Institute

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 130234E

Order To: SPECIALTY GLASS, INC.
9406 ALBERENE
HOUSTON, TX 77074

115892

Ship To: Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: BOB Ph: 800-899-2137 Fax: 713-777-4762

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
10/10/00	J. Evans	NET 30	SHIPPING POINT		UPS GROUND	D. DUNN/B. 57

L. #	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the contractor shall follow all requirements of the Defense Allocations System Regulation (15 CFR Part 700).							
1	MISC CT CELL CONDENSER, SwRI DRAWING 20-01402-571-013		EA	10/26/00	10/18/00	4.0000	61.0000	\$244.00
	Req: 550173 QC Insp Required Prime Contract #: NRC0297009 Priority: N/A AOP: 704-000 1.20 01402.571							
2	MISC ADAPTOR 24/40 WITH 75 DEG. ANGLE AND 3/8 OD TUBE		EA	10/26/00	10/18/00	4.0000	21.0000	\$84.00
	Req: 550173 QC Insp Required Prime Contract #: NRC0297009 Priority: N/A AOP: 704-000 1.20 01402.571							
	QUALITY & TECHNICAL REQUIREMENTS: CONDENSER MADE FROM BOROSILICATE GLASS. SUPPLIER SHALL SUPPLY A CERTIFICATE OF COMPLIANCE OR COMPLETE THE ATTACHED SWRI CERTIFICATE OF COMPLIANCE FORM AND RETURN WITH THE ARTICLES TO BE DELIVERED. INVOICE WILL NOT BE PAID UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN RECEIVED. THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN 5 WORKING DAYS. "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED							

Southwest Research Institute

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 130234E

Order To: SPECIALTY GLASS, INC.
9406 ALBERENE
HOUSTON, TX 77074

115892

Contact: BOB Ph: 800-899-2137 Fax: 713-777-4762

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
10/10/00	J. Evans	NET 30	SHIPPING POINT		UPS GROUND	D. DUNN/B. 57

L	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS." Bill To: Southwest Research Institute P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510 <hr/> Authorized Signatures						PO Total Amt:	\$328.00

2. REQUESTING



PURCHASE REQUISITION
SOUTHWEST RESEARCH INSTITUTE

"Attach Memos, quotations and any other correspondence."

PURCHASE ORDER NO.	REQ. NO. 550173
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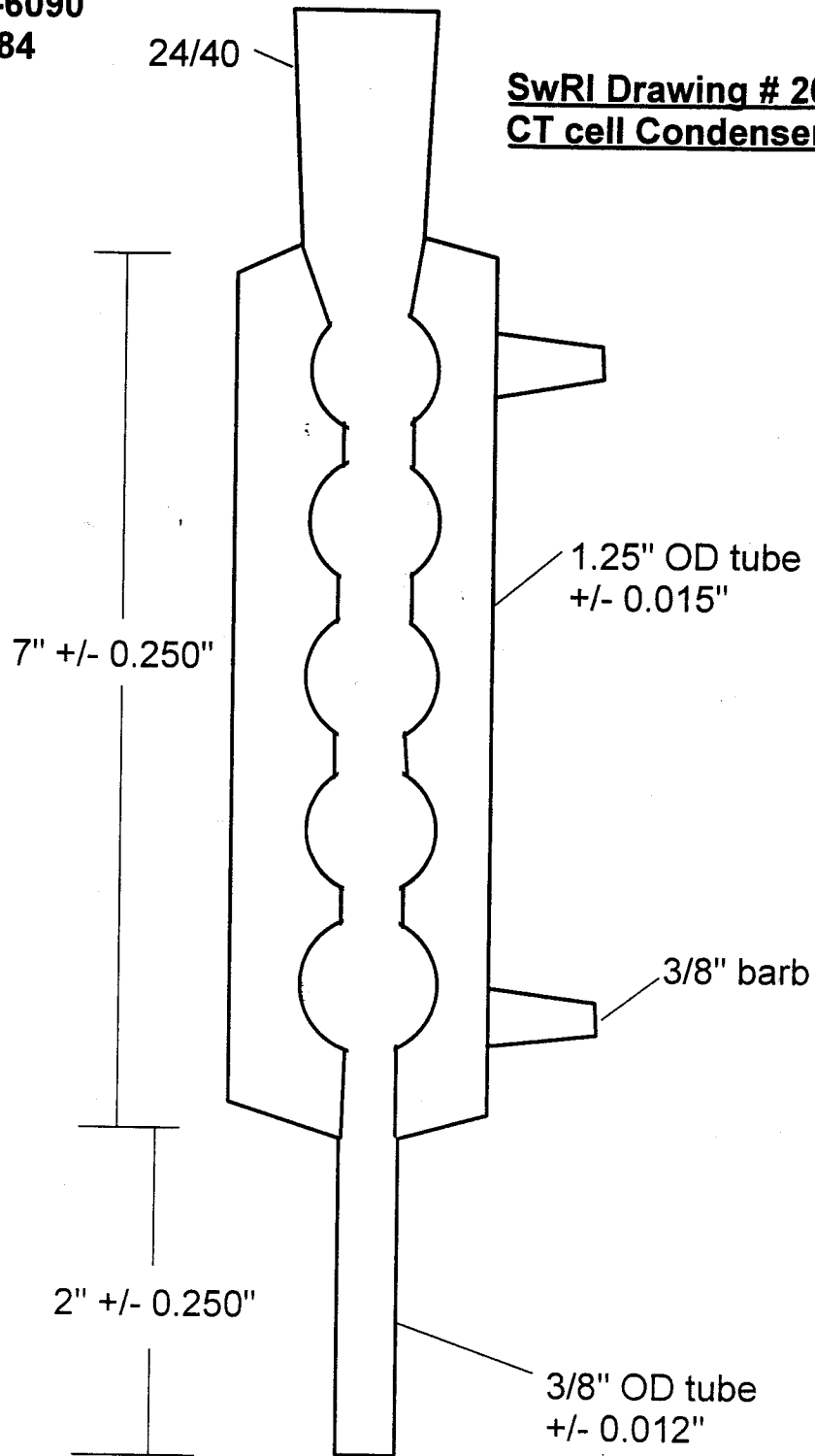
VENDOR			DATE OF ORDER	SHIP VIA	SUGGESTED SUPPLIER Specialty Glass
			F.O.B. POINT	TERMS	9406 Alberene St.
			CONTRACT NO.		Houston, TX 77074
VENDOR CODE	ATTN:	PHONE	PRIORITY	PHONE 800/899-2137	FAX 713/777-4762

ITEM	QTY.	UNIT	DESCRIPTION	ITEM IDENTIFIER	EST. COST EA.	UNIT PRICE	AMOUNT
A	4	EA	CT cell condenser, SwRI drawing 20-01402-571-013		\$65.00		
"	4	EA	Adaptor 24/40 with 75° angle and 3/8 OD tube		\$14.00		
			Quality & Technical Requirements: Condenser made from borosilicate glass				
						TOTAL	

REQUIRED 10/18/00	REQUISITION DATE 10/6/00	TO BE USED FOR (C1)	DELIVER TO NAME/LOCATION D. Dunn/bldg. 57	SPECIAL INSTRUCTIONS Send all paperwork to R. Ard/bldg. 189	
ACCOUNT NO.(s) 20.0402.571	REQUESTOR'S SIGNATURE Darrell Dunn DEPARTMENTAL/DIVISIONAL APPROVAL <i>[Signature]</i>	EXT.NO. 6090	DATE 10/6/00	1. If you have specified a brand name, would an equivalent brand or product also satisfy your need? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. If you have suggested a supplier for the item or service, could other suppliers meet your requirements? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		b. If "NO", will it be attached to, built into, or used as an accessory to a piece of equipment either in existence or to be constructed? <input type="checkbox"/> YES <input type="checkbox"/> NO		3. If this requisition is for a repair-is the repair on campus or off campus? <input type="checkbox"/> ON <input type="checkbox"/> OFF	
a. Will it be substantially consumed, destroyed, or exhausted during the performance of the project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		c. If "NO", is the item uniquely required to instrument the project that is funding the purchase? <input type="checkbox"/> YES <input type="checkbox"/> NO		If OFF CAMPUS indicate shipping ticket #	
CONTRACT ADMINISTRATOR		DATE	BUYER SIGNATURE <i>[Signature]</i>	DATE 10/6/2000	EXPEDITE DATE
				f. QA Footnotes: Q1	
				g. Inspection Criteria: D. DUNN TO VISUALLY INSPECT.	
SEE INSTRUCTIONS ON REVERSE SIDE					

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184

SwRI Drawing # 20-01402-571-013
CT cell Condenser



Darrell S. Dunn
Initiated by D. Dunn

10/6/2000
Date

N. Sridhar
Reviewed by N. Sridhar

10/6/2000
Date

B. Mabrito
QA Approval B. Mabrito

10/6/2000
Date