

APPLICATION FOR LICENSE TO EXPORT NUCLEAR
 MATERIAL AND EQUIPMENT (See Instructions on Reverse)

APPROVED BY OMB
 3150-0027
 EXPIRES 12-31-90

DCS/DF02

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1. APPLICANT'S USE		a. DATE OF APPLICATION 8-9-90		b. APPLICANT'S REFERENCE		2. NRC USE		a. DOCKET NO. 11004336		b. LICENSE NO. XMAT0350	
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material)					
a. NAME Hi-Mark Research, Ltd.						b. NAME					
d. STREET ADDRESS R.D. 1, Box 227						b. STREET ADDRESS					
c. CITY Brookville				STATE PA		ZIP CODE 15825		c. CITY			
d. TELEPHONE NUMBER (Area Code - Number - Extension) (814) 849-8006						STATE		ZIP CODE			
5. FIRST SHIPMENT SCHEDULED 8-30-90		6. FINAL SHIPMENT SCHEDULED 12-30-90		7. APPLICANT'S CONTRACTUAL DELIVERY DATE 9-30-90		8. PROPOSED LICENSE EXPIRATION DATE 5 years from issuance of license		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)			
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE (Include plant or facility name)					
a. NAME KOMEX INTERNATIONAL						Electrode material for electrical discharge machining. Explained in more detail in attached letter.					
b. STREET ADDRESS 49-30 Shindang-dong, Chung-ku						11a. EST. DATE OF FIRST USE 8-15-90					
c. CITY - STATE - COUNTRY Seoul, Korea						13. INTERMEDIATE END USE					
12. INTERMEDIATE CONSIGNEE						13a. EST. DATE OF FIRST USE					
a. NAME						15. INTERMEDIATE END USE					
b. STREET ADDRESS						15a. EST. DATE OF FIRST USE					
c. CITY - STATE - COUNTRY											
14. INTERMEDIATE CONSIGNEE											
a. NAME											
b. STREET ADDRESS											
c. CITY - STATE - COUNTRY											
16. NRC USE		17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components)				18. MAX. ELEMENT WEIGHT		19. MAX. WT. %		20. MAX. ISOTOPE WEIGHT	
		Bulk nuclear grade graphite See attached property sheets 9008100279 900809 PDR EXPORT XMAT-0350 PDC				48,000 kg per year for the next 5 years		240000 total		kg	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL USA				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED N/A				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known) N/A			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) See attached cover letter											
26. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information in this application is correct to the best of his/her knowledge.											
27. AUTHORIZED OFFICIAL				a. SIGNATURE				b. TITLE			
								V.P. Marketing & Sales			

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HI-MARK RESEARCH, LTD.

XMAT0352
11004336

PENETRATOR

PREMIUM EDM GRAPHITE

	<u>MARK 7</u>	<u>MARK 5</u>	<u>MARK 1</u>
APPARENT DENSITY (g/cc)	1.75	1.83	1.87
FLEXURAL STRENGTH (psi)	8,200	11,500	12,500
SPECIFIC RESISTANCE ($\times 10^{-5}$ ohm-in.)	68	65	69
HARDNESS, SCLEROSCOPE	68	78	83
GRAIN SIZE, MICRONS	7	5	1
, INCHES	.0003	.0002	.00004
COLOR CODE	WHITE	RED	BLUE
SUGGESTED APPLICATIONS	FINISHING	DETAIL	FINE DETAIL

6/90