



Westinghouse Electric Corporation

Micarta Division

Hampton, S. C. 29924

Telephone: (803) 943-2311

June 7, 1967

Mr. Bob F. Flanagan
Pierce & Pierce, Inc.
P. O. Box 13319
Houston, Texas 77019

Dear Mr. Flanagan:

At the request of Mr. P. Early we have been asked to supply you with information regarding our Fire Retardant Grade MICARTA. Accordingly, per the attached data, this is to advise you that we manufacture a fire retardant grade MICARTA which carries an Underwriters' Label with fire hazard classification per the enclosed Fire Retardant Asbestos MICARTA brochure.

If, after noting the data, you have any further questions please advise us and we will assist you in any way we can.

Very truly yours,

WESTINGHOUSE ELECTRIC CORPORATION

S. E. Palazzolo
Engineering Manager
Decorative MICARTA Division

cc: Mr. G. McNair, U. S. Plywood, Shreveport
cc: Mr. M. M. Spear, U. S. Plywood, San Antonio
cc: Mr. P. Early, U. S. Plywood, Houston
cc: Mr. B. Berman, Dallas Office
cc: Mr. J. A. Nanke, Hampton Works
cc: Dr. D. E. Baldwin, Hampton Works
cc: Mr. L. M. Smith, Hampton Works
cc: Mr. J. T. McDonagh, Atlanta Office



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ISSUED
10-30-61
BY
M. D. J.

INSULATION - CLASSES & APPLICATION

PH 920.1

(1) THE FOLLOWING DATA RELATIVE TO INSULATION FOR TURBINE PARTS SHOULD BE FOLLOWED UNLESS SPECIFIC CONTRACT REQUIREMENTS MAKE DEVIATION NECESSARY, IN WHICH CASE THE "O" SPEC. WILL SPECIFY IN DETAIL THE TYPE OF INSULATION AND PROCEDURE.

(2) THE METHOD FOR INSULATING TURBINE CYLINDERS, MAIN STEAM PIPING, STEAM CHESTS, VALVES AND IRREGULAR SURFACES IS DIVIDED INTO CLASSES AS LISTED IN TABLE BELOW. "O" SPEC. WILL CALL FOR CLASS TO FOLLOW.

(3) SEE PAGE PH-920.2 FOR NOTES AND FOR INSULATION OF STEAM DRAIN AND GLAND PIPING AND CROSS-OVER OR CROSS-UNDER PIPING.

(4) SEE TABLE ON PAGE PH-920.3 FOR THICKNESSES REQUIRED AND MATERIAL SPECS. AND PAGE PH-920.4 AND 920.5 FOR ORDERING INFORMATION

CHANGED

7/15/53	4	CLASS NO.	CLASS DESCRIPTION	PART TO BE INSULATED	INSULATION TYPE	APPLIED IN	PROCESS SPEC.	NOTES TO BE PLACED ON APPLICABLE DWGS. (SEE PH-920.2)
12/24/61	5		TURBINES SHIPPED ASSEMBLED - INCLUDING INSULATION.	CYLINDER BODY	BLOCK	SHOP	600433	
11/16/64	6		(THIS INCLUDES 166, 246 AND 286 FRAMES AND ALL INDUSTRIAL TURBINES COMING WITHIN THE LIMITS OF SHIPPING DIMENSIONS.)	JOINTS	BLANKETS	SHOP	600359	
12/15/64	7			PIPES TO 10"	MOLDED	SHOP	600433	
5/19/65	8			OVER 10"	BLOCK	SHOP	600433	
1/15/65	9			STEAM CHESTS, VALVES, & IRREGULAR SURFACES	BLOCK AND BLANKET	SHOP	600433 600359	
				ENCLOSURE	SPRAYED ASBESTOS	SHOP	600111	
				GAUGE BOARD	BLOCK	SHOP	600360	
			TURBINES SHIPPED ASSEMBLED BUT NOT INSULATED, & ERECTION SERVICE.	CYLINDER, STEAM CHEST, VALVES, ETC.	BLOCK - PLASTIC	FIELD	600729	NOTES "B" AND "C" (EXPORT ORDERS SUBSTITUTE NOTE "O")
			INSULATION FURNISHED AND APPLIED BY SERVICE DEPT. (EXCEPT FOR EXPORT ORDERS)	PIPES TO 10"	MOLDED	FIELD	600433	
			INCLUDES NON-COND. TURBS., HP TURBS. OF TANDEM UNITS AND ANY OTHER TURBS. WITH SEPARATE #2 PEDESTALS WHICH ARE LIFTED BY HORIZ. JT. BOLTS.	OVER 10"	BLOCK	FIELD	600433	
				ENCLOSURE	SPRAYED ASBESTOS	SHOP	600111	
				GAUGE BOARD	BLOCK	SHOP	600360	
			TURBINES SHIPPED ASSEMBLED BUT NOT INSULATED, & INSTALLATION SERVICE	CYLINDER, STEAM CHEST, VALVES, ETC.	BLOCK - PLASTIC	FIELD	600729	NOTES "A" AND "C" (EXPORT ORDERS SUBSTITUTE NOTE "O")
			INSULATION FURNISHED BY WESTINGHOUSE AND APPLIED BY THE PURCHASER. (EXCEPT FOR EXPORT ORDERS)	PIPES TO 10"	MOLDED	FIELD	600433	
			INCLUDES NON-COND. TURBS., HP TURBS. OF TANDEM UNITS AND ANY OTHER TURBS. WITH SEPARATE #2 PEDESTALS WHICH ARE LIFTED BY HORIZ. JT. BOLTS.	OVER 10"	BLOCK	FIELD	600433	
				ENCLOSURE	SPRAYED ASBESTOS	SHOP	600111	
				GAUGE BOARD	BLOCK	SHOP	600360	
			TURBINES SHIPPED DISASSEMBLED, WESTINGHOUSE ERECTION SERVICE.	CYLINDER, STEAM CHEST, VALVES, ETC.	BLOCK - PLASTIC	FIELD	600729	NOTES "B" AND "C" (EXPORT ORDERS SUBSTITUTE NOTE "O")
			INSULATION FURNISHED AND APPLIED BY SERVICE DEPT. (EXCEPT FOR EXPORT ORDERS)	PIPES TO 10"	MOLDED	FIELD	600433	
				OVER 10"	BLOCK	FIELD	600433	
				ENCLOSURE	SPRAYED ASBESTOS	SHOP	600111 PT. I 600111 PT. II	
				GAUGE BOARD	BLOCK	SHOP	600360	
			TURBINES SHIPPED DISASSEMBLED, WESTINGHOUSE INSTALLATION SERVICE.	CYLINDER, STEAM CHEST, VALVES, ETC.	BLOCK - PLASTIC	FIELD	600729	NOTES "A" AND "C" (EXPORT ORDERS SUBSTITUTE NOTE "O")
			INSULATION FURNISHED BY WESTINGHOUSE AND APPLIED BY THE PURCHASER. (EXCEPT FOR EXPORT ORDERS)	PIPES TO 10"	MOLDED	FIELD	600433	
				OVER 10"	BLOCK	FIELD	600433	
				ENCLOSURE	SPRAYED ASBESTOS	SHOP	600111 PT. I 600111 PT. II	
				GAUGE BOARD	BLOCK	SHOP	600360	

NOTE:- PROC. SPEC. 600916 SPRAYED ASBESTOS MAY BE USED AT CUSTOMER'S OPTION IN PLACE OF 600433 FOR CROSS-OVER PIPE INSULATION AND 600729 FOR CYLINDER, STEAM CHEST, ETC., INSULATION.

* FOR STEAM DRAIN AND GLAND AND CROSS-OVER OR CROSS-UNDER PIPING INSULATION SEE PAGE PH-920.2.

** FOR TEMPERATURES UP THRU 750°F NO ENCLOSURE INSULATION NECESSARY IN THIS CLASS.

*** APPLY ONLY ENCLOSURES OVER HP, IP, OR HP-IP TURBINE ELEMENTS.

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WESTINGHOUSE ELECTRIC CORPORATION, LESTER, PA., U.S.A.

STEAM DIVISION



STANDARDS ENGRG.

PH 920.1