14:36 #103 P.02/06

Sheet 1 of 5

AMETEK
AEROSPACE PRODUCTS INC.
WILMINGTON, NA 01887
CAGE CODE: 97424
Formerly GE Instrument Products Oper

#### MATERIALS-PROCESSES-FINISHES

#### INTERNAL SPECIFICATION

COVER SHEET

(APPROVED SOURCE)

Rev. \$2 January 2, 1991

TITLE: Pluorocarbon Plastic Insulated Alumel Thermocouple Wire ORIGINAL SIGNED BY: PREPARED BY: DESIGN ENGINEERING DATE UNIT NAME DESIGN ASSURANCE & STANDARDS DATE MAME APPROVED BY: DESICH ENGINEERING MANE DATE DESIGN ASSURANCE & STANDARDS NAME BATE

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14:36

**AMETEK** AEROSPACE PRODUCTS, INC. WILMINGTON, MA 01887 CAGE CODE: 97424 Formerly GE Instrument Products Oper

### MATERIALS-PROCESSES-FINISHES

### INTERNAL SPECIFICATION

B50WB02B

### REVISIONS

KEATRIONS				
LTR		DESCRIPTION	DATE ISSUED	APPROVED
1			04/27/73	
2	RDA6009	Added current design activity. Renumbered all pages,	01/02/91	De
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AMETRIK Proprietary: 11/13/02: ISBUED. #EC'S Released/Required: -NONE-

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AEROSPACE PRODUCTS, INC.
WILMINGTON, MA 01887
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Formerly GE Instrument Products Oper

MATERIALS-PROCESSES-PINIGHES

INTERNAL SPECIFICATION

B50WB028-S2

CONTRACT NUMBERS

F33657-86-D-0177



978 988 4535

B50WB028-S2

# CAGE CODE: 97424 FORMERLY GE INSTRUMENT PRODUCTS OPERATION

Sheet 4

SPECIFICATION & PROPERTIES
PLUCROCARBON PLASTIC INSULATED ALIDEL THERMOCOUPLE WIRE

January 2, 1991

AAPI Material B50MB02B identifies fluorocarbon plastic insulated alumel single conductor thermocouple wire, as follows:

AAPI

designation

<u>Description</u>

350WB028A

80114

HATERIAL DECUIREMENTS:

Conductor - Shall be a nickel base alloy thermocouple wire, commonly known as Alumel(1), conforming to the latest specification requirements of AAPI Material B50WB003B.

Insulation - Shall be a fluorocarbon plastic compounded from a copolymer of tetrafluoroethylene and hexafluoropropylene, commonly known as Teflon FEP 100(2).

(1) Hoskins Mfg. Co., Detroit, Michigan

(2) E.I. duFont de Memours & Co., Wilmington, Delaware

PROPERTIES:

Electric continuity - Conductor shall have electrical continuity throughout its spool length. Both ends of a spool length of wire shall be brought out of the spool to a length of five feat for test purposes.

Thermal emf - The thermal emf of the bare wire shall not be changed by the ap-

plication of the insulation.

MANUFACYORE:

Splicing - Splicing shall be kept to an absolute minimum. When splicing is required during the insulation of the wire, the ends of the conductor shall be butt welded.

Repairs or joints - Where repairs or joints are made in the insulation, the work shell be done in such a manner that the remaired part of the joint and all parts affected in the process shell be as strong and durable electrically and mechanically as the remainder of the insulation, and shall not exceed the limitations on thickness. Surface - The surface of the finished wire shall be smooth and free from tackiness. Stripping - Insulation shall strip readily and cleanly from the conductor. Color - Insulation shall be red in accordance with ISA Recommended Color Code.

DECEMBIONS:

Size of wire shall be as specified on purchase order.

PACKING AND MARKING:

Material shall be suitably packed to prevent loss or damage during shipment.

Each spool, package, or other container shall be legibly marked with the purchase order number, the manufacturer's name or trade name, and the AAPI designation.



B50WB028-S2

# CAGE CODE: 97424 FORMERLY GE INSTRUMENT PRODUCTS OPERATION

Sheet 5

# PATA FOR CEDERING PLUGEOCARBON PLASTIC INSULATED ALLREL THERMOCOUPLE WIRE January 2, 1991

AAPI Material B50WB028 identifies fluorocarbon plastic (Teflon WEP 100) insulated alumni single conductor thermocouple wire, as follows:

AAPI designation

Description

B50MB028A

Solid

... Engineering Standards has furnished supplier with copies of specification-B50WB028

Orders for this material should specify:

Material name - Fluorocarbon plastic insulated alumal thermocouple wire Designation - AAPI Naterial B50WB02BA Specification - B50WB02B Quantity and size

The approved source of supply for AAPI Material B50WB028A is:

Supplier

Supplier's designation

Thermo Electric Co. Saddle Brook, New Jersey I(ex)-\*-CIN

\*Insert desired AMG wire size; e.g., T(ex)-24-CTM for AMG #24.