DEC STANDARD

REV. F

092 SEC. 0

FINISH

AND

STANDARD

COLOR

TITLE: FINISH AND COLOR STANDARD - INTRODUCTION AND GENERAL REQUIREMENTS

ABSTRACT: This finish and color standard is made up of six sections; each of which may stand alone as a separate standard. The finish and color standard provides a guideline and lists requirements in the following areas:

- a. Introduction to Digital's finish numbering system.
- b. General finish requirements.
- c. Test panel information.
- d. Material and material supplier selection.
- e. Requirements for evaluation of samples and batch approval.
- f. Environmental, physical and appearance quality test requirements and methods.

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1 INTRODUCTION

1.1 PURPOSE

The purpose of this section is to explain the system that is used by Digit 1 to ensure that the finish material and finished parts accepted by Digital are of the highest quality and conform to the requirements listed in each section of the standard.

1.2 SCOPE

This section of the standard describes the system and furnishes information that may be used by Digital personnel in the selection of the section of the section of the section of the section of manufactured parks.

This standard does not apply to the assignment of 92-class purchase part identifiers. For that information, refer to DEC STD 012.

1.3 RESPONSIBILITIES

1.3.1 Systems Materials Engineering

The Systems Materials Engineering organization is responsible for any additions, deletions, or changes to this standard. For additional information, contact:

Art Clockedile ACO/M38. DTN: 232-2470

1.3.2 Finish Applicator

The finish applicator is responsible for supplying a product that meets the requirements of DEC STD 992, Section 1 and the appropriate finish specification.



1.3.3 Coating Material Supplier

The coating material supplier is responsible for the following:

- Providing test panels and material samples to Digital as required in DEC STD 092, Section 2, when requested by Digital.
- b. Supplying material that meets the requirements of DEC STD 092, Section 2.

1.3.4 Digital Materials Research Lab

The Digital Materials Research Lab is required to provide the standard color and texture panel to be used to match the finish desired by Digital.

The Lab shall receive, and perform acceptance testing on, the panels and material sample supplied by the supplier, when requested by Digital.

The Lab group shall notify the supplier of acceptance or rejection of the material or finish.

The Lab shall be responsible for testing and approval of a pre-shipment sample of finish material from the supplier before its use by in-house processors or vendor-applicators.

1.4 REFERENCED STANDARDS, SPECIFICATIONS, AND PUBLICATIONS

1.4.1 Digital Standards

DEC STD 102

DEC STD 012

Unified Numbering Code: Policy on Part and Document Identification Conventions

Environmental Standard for Computers and Peripherals

Copies of Digital Standards and Specifications may be obtained from Standards and Methods Control, MLO3-2/E56, DTN: 223-9475.



1.4.2 Government Specification

MT1._F_14072

Finishes for Ground Signal Equipment

1.4.3 Publication

Industrial Ventilation, A Manual of Recommended Practice

Copies can be obtained from the Committee on Industrial Ventilation, Box 16153, Lansing, MI 48901.

2 GENERAL REQUIREMENTS

2.1 STANDARD SECTIONS

DEC STD 092 is a finish and color standard made up of eight separate lacktriangle sections.

The standard is designed to be used either in its entirety by Digital personnel or in certain separate sections by Digital vendors. See Table 1. Hee of Standards.

2.1.1 Section 1 - Finish Standard For Applicators

Section 1 is directed at finish applicators, either in-house or outside vendors, and defines the Digital finish numbering system, finish requirements, and the method of handling finished parts.

2.1.2 Section 2 - Finish Material Standard For Suppliers

Section 2 provides information for the material supplier and covers material requirements, material tests, shipping requirements, and procedures for handling samples and test panels.

2.1.3 Section 3 - Finish Material Test Requirements

Section 3 is the test requirements section. It defines the test requirements and test methods applied to the finishes used on Digital parts. Section 3 is to be used with Section 1 and Section 2.



2.1.4 Section 4 - Approved Finish Specifications

Section 4 lists the currently approved finish specifications. These specifications were originally part of DEC STD 092, but are now separate documents to facilitate distribution. They are separated into the following categories:

- a. Paint
- b. Metal Plating
- c. Conversion and Oxide Coating

Requirements applicable to the specific finish are listed in each finish specification.

A copy of the applicable finish specification shall be supplied to the finish applicator or material supplier, as needed,

2.1.5 Section 5 - Digital Color List

Section 5 contains the list of Digital's currently-approved colors and their identification numbers.

- 2.1.6 Section 6 Digital-Approved Paint Suppliers
- Section 5 correlates Digital's paint identification number with the supplier's paint identification number for all Digital-approved paints.
- 2.1.7 Section 7 Plastic Color Control
- Section 7 lists all color-impregnated plastics that have been approved for use by Digital.



Table 1. Purpose and Use of Each DEC STD 092 Section and Separate Specification

		Expec	ted Users	
	TD 092 Subject	Applicators (Vendor or In-House)	Material Suppliers	Digital Designers
0	Introduction and General Requirements	No	No	Yes
1	Finish Standard for Applicators	Yes	No	Yes
2	Finish Material Standard for Suppliers	No	Yes	Yes
3	Finish Material Test Requirements	Yes	Yes	Yes
4	Approved Finish Specifications	Yes	N/A	Yes
	Separate Finish Specifications	Yes	N/A	Yes
5	Digital Color List	Yes	No	Yes
6	Approved Paint Suppliers	No	No	Yes
	Separate Paint Supplier Specifications	Yes	No	Yes
7	Color-Impregnated Plastics	N/A	No	Yes



2.2 DESIGN INFORMATION

2.2.1 General Requirements for All Digital Finishes

Finishes approved for use on Digital products shall provide surface protection when subjected to the specific types of environmental conditions described in Section 3, Finish Material Test Requirements.

These environmental capabilities are similar to Type II conditions encountered by "Sheltered Surfaces" as defined in MIL-F-14072.

Type II Sheltered Surfaces are those not totally exposed to the direct action of climatic elements when the equipment is operating on site or in transit. These surfaces will receive direct exposure to temperature, humidity, and normal industrial atmospheres, including concentrations of corrosive vepors up to total limits, as defined by ventilation, A Manual of Recommended Practice.

Exposure to direct chemical spillage will be limited to nor-abrasive cleaners and solvents such as turpentine, naptha, and ethyl and butyl alcohols.

Type II Sheltered Surfaces are not subjected to direct exposure to rain, hall, snow, sleet, salt laden art, direct solar radiation, or the scouring action of windblown sand. Should environmental exposure to the direct action of these elements be required, the project engineer is responsible for the specification and subsequent performance adequare of the specification.

The environmental, physical, and appearance quality tests identified in Section 3, Finish Material Test Requirements are used solely as benchmark performance indicators and do not reflect any intended or implied environmental capabilities for a finished Digital product. The parameters used provide accelerated test results so that evaluation of material performance can be obtained more rapidly.

The appropriate tests and criteria described in Section 3, Finish Material Test Requirements for the specific finishes and substrate WIII be applied to sample N-x 6-inch test panels in order to either evaluate a currently approved process or finish, or to evaluate and approve a new process or finish. Test panel requirements and uses are described in Section 1, Finish Standard for Applicators.



2.2.2 Environmental Tests On Samples Of Finished Digital Parts

Testing of finished Digital parts may be required to provide random checks on the finishing process and materials. In addition, complex or intricate Digital parts may be tested to determine the adequacy of the specified finish.

The environmental tests performed on samples of finished Digital parts, whether finished in-house or by outside vendors, will be limited to the following:

- a. Two complete cycles of non-operating temperature/humidity test as specified in DEC STD 102.
- b. The sample Digital part will be an individual finished piece only and this test will not be performed on any subassembly, assembly, or finished Digital product.
- c. Acceptance critoria are the same as applied to test panels, in that sharp edges or corners may exhibit local rusting.
- d. Environmental tests for assemblies or finished Digital products are listed in DEC STD 102.



DEC STANDARD

092 SEC. 1

REV. F

TITLE: FINISH AND COLOR STANDARD - FINISH STANDARD FOR APPLICATORS

ABSTRACT: This section provides the finish applicator with a description of the Digital system and requirements in regard to the application of a finish to manufactured parts.

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1 INTRODUCTION

1.1 PURPOSE

This section is a guideline to be used by the finish applicator of Digital parts.

1.2 SCOPE

This standard provides information to the finish applicator that defines the Digital finish numbering system, finish requirements and the method for handling finished parts.

1.3 RESPONSIBILITIES

1.3.1 Coating Material Suppliers

Coating material suppliers are responsible for providing a material that meets the requirements of DEC STD 092, Section 2.

1.3.2 Systems Materials Engineering

The Systems Materials Engineering organization is responsible for any additions, deletions, or changes to this standard. For additional information, contact:

Art Clockedile ACO/M38, DTN: 232-2470

1.3.3 Finish Applicator

Finish applicators are responsible for supplying a product that meets the requirements of this standard and the appropriate finish specification.



1.3.4 Digital Materials Research Lab

The Digital Materials Research Lab is responsible for testing and approval of a pre-shipment sample of finish material from the coating material supplier before its use by in-house processors or vendor-applicators.

1.3.5 Design Services Organizations

Design Services organizations are responsible for implementation of the finish numbering system defined in subhead 2 of this section.

1.4 REFERENCED DOCUMENTS

1.4.1 Digital Standards

DEC STD 012 Section 0 Unified Numbering Code - Part and Document Identification Conventions -Digital Corporate Policy

1.4.2 Digital Specifications

A-SP-EL00092-0-0250 (392-0250-xxx) Surface Preparation for Painting

A-SP-7665303-0-0 Touch-up Procedure for Air Dry and Aerosol Paints

Copies of Digital Standards and Specifications may be obtained from Standards and Methods Control, MLO3-2/E56, DTN: 223-9475.

2 FINISH/MATERIAL NUMEZRING SYSTEM

Digital uses a 3-4-3 format number to specify finish or material requirements. For finishes, this number indicates the finish material group, surface variation, quality level and color as follows:





2.1 DIGITAL STANDARD FINISH NUMBER

The first three characters of every Digital standard finish number will always be 092, referring to DEC STD 092, Finish and Color Standard.

All three digits shall always be specified; omission of the leading zero (92) is not "llowed. This requirement is necessary to eliminate the possibility of a user misinterpreting a Digital standard finish number as a DEC STD 012 Unified Numbering Code (UNC) 2-5-2 part identifier. The standard finish number is not a part number

2.2 MATERIAL GROUP

An alphabetic character in the first position of the 4-character field of the 34-43 format is used to designate a material group. It is always used with a designated surface variation. The following material group letters are assigned:

Group	Hateriai
Α	Paints
В	: Metal Plating
С	Conversion and Oxide
	: Coatings
5	! Molded Plastics
Ε	Sheet Plastics
F	Inks
	1

2.3 SURFACE VARIATIONS

A 2-digit surface variation number is used to designate a specific surface variation, within a material group. For example:



092-A10x-xxx Smooth surface paint 092-B05x-xxx zinc plated surface

Each surface variation will have a finish specification that specifies the particulars of that finish. The finish specification must be prepared, approved and controlled in accordance with the requirements of DEC STD 092. Section 4.

2.4 OHALTTY LEVEL

The five levels, designated 1 through 5, are used to specify the quality level for the finish. The number indicates the application and inspection criteria of a particular finish as follows:

092-***1-***

A "1" is used to indicate that special finish requirements require the optical devices or other special inspection instruments specified on the related engineering drawing for the part.

092-***2-***

A "2" is used for high-quality decorative parts, such as control panels, logos, silk-screening, etc. that are exposed in highly-visible areas of Digital products.

Ouglity level 2 parts shall be inspected for finish quality from a viewing distance of 13 inches.

092-xxx3-xxx

A "3" is used to specify finish quality for parts that are occasionally exposed, such as control panels.

Quality level 3 parts shall be inspected for finish quality from a viewing distance of 36 inches.

092-xxx4-xxx

A "4" is used to specify finish quality for external parts such as textured panels and housings.

Quality level 4 parts shall be inspected for finish quality from a viewing distance of 48 inches.

092-xxx5-xxx

A "5" is used to specify finish quality level for parts that are inside the cabinet or chassis, or the inner surface of exposed parts.



Quality level 5 parts shall be inspected for finish quality from a viewing distance of 60 inches.

Note

The drawing shall specify if more than one quality level is required.

2.5 COLOR 092-xxxx-CCC

The color is specified by a 3-digit number in the last three positions of the 3-4-3 number. The currently approved color codes are listed numerically in Table 5-1 of DEC STD 092. Section 5.

3 PREVIOUS NUMBERING SYSTEM

The finish numbering system defined by this standard replaces all previous versions of 92-class numbers assigned to paints and finishes.

The previous numbering system provides three groups of information. 92 is the designation for all finishes. The first four digits in the second field designate specific classes or types of finishes. The last digit of the second field and the two digits of the third field designate color.

92-xxxx (c-cc) 92-xxxx(c-cc)
finish particular color
group finish (last 3 digits in parentheses)
(first 2 digits) (4 digits)

These numbers appeared on all drawings of hardware (either as 92-xxxx(c-cc) or 92-xxxxc-cc format) to describe the specific type of finish and the appearance quality desired for the part or essembly.

Existing engineering drawings and documents that use the previous numbering system for paints and finishes will only be changed if specified by an ECO. All new drawings and documents prepared after the release date of this revision (Revision E) shall use the finish numbering system defined in subhead;

Table 1-1 provides a ...coss-reference listing of approved Digital standard finishes and their previously approved finish numbers.



Table 1-1. Obsolete Finish Identifiers - A Cross-Reference List

This table provides a cross-reference list of previously used finish numbers and their equivalent new Digital Standard Finish numbers. (x-xx) indicates color.

NUMBER	NAME	OLD FORMAT	NEW FORMAT
Spec-01	Textured Paint	92-0015(x-xx)	092-A154-xxx
Spec-02	Semi-Gloss Baked Enamel	92-0011(x-xx)	092-A113-xxx
Spec-03	Not Used	JE-0011(A-AA)	776-A113-AAA
Spec-04	Baked or Air Dry Enamel	92-0012(x-xx)	092-A125-xxx
Spec-05	Not Used		- ,
Spec-06	Zinc-Chromate-Lacquer	92-0006(x-xx)	092-B065-xxx
Spec-07	Zinc-Chromate	92-0007(x-xx)	092-B075-xxx
Spec-08	Not Used		
Spec-09	Not Used		
Spec-10 Spec-11	Decorative Panels (Exposed)	92-9010(x-xx)	092-A102-xxx
Spec-12	Decorative Panels (Usually Unexposed) "Inside the Cast" Finished Parts		092-A113-xxx
Spec=12	Finished-Exposed Castings	92-0012(x-xx)	092-A125-xxx
Spec-14	Finished-Unexposed Castings	92-0013(x-xx) 92-0014(x-xx)	092-A134-xxx 092-A145-xxx
Spec-15	Textured Paint	92-0015(x-xx)	092-A154-XXX
Spec-16	Not Used	92-0015(X-XX)	092-8134-111
Spec-17	Not Used		
Spec-18	Not Used		
Spec-19	Not Used		
Spec-20	Chemical Conversion Coatings	92-0020(x-xx)	092-C205-xxx
Spec-21	Silk Screen on Baked Enamel	None	
Spec-22	Not Used		
Spec-23	Mot Used		
Spec-24 Spec-25	Not Used		
Spec-25	Surface Preparation (Steel) Not Used	92-0025(x-xx)	092-C255-x:x
Spec-27	Gold Plating (Proprietary)	92-0027(x-xx)	
SPEC-28	Surface Preparation (Castings)	92-0027(x-xx)	092-C270-xxx 092-C285-xxx
Spec-29	Not Used	92-0025(x-xx)	092-0255-XXX
Spec-30	Not Used		
Spec-31	Not Used		
Spec-32	Not Used		
Spec-33	Not Used		
Spec-34	Not Used		
Spec-35	Anodizing of Aluminum (Sulphuric Acid Process)	92-0035(x-xx)	092-C354-xxx
Spec-36	Anodizing of Aluminum (Chromic Acid Process)	92-0036(x-xx)	092-C364-xxx
Spec-37	87-D (Proprietary by Vendor)	92-0037(x-xx)	092-C374-xxx
Spec-38	Black Anodizing	92-0038(x-xx)	092-C384-xxx
	(Sulphuric Acid Process)		
Spec-39	Hardcoating of Aluminum	92-0039(x-xx)	092-C394-xxx
Spec-40	Surface Preparation (Molded Parts)	92-0040(x-xx)	092-A404-xxx
Spec-41	Painted Molded Parts (Exposed)	92-0041(x-xx)	092-A413-xxx



4 APPEARANCE QUALITY CRITERIA

4.1 GENERAL REQUIREMENTS

4.1.1 Workmanship

The finish and finished parts shall be clean, neat, and comply with drawings and specifications. Any corrosion of base material will be considered unacceptable.

4.1.2 Packing and Preservation

The items shall be packaged to protect the finish and the parts during normal handling and transporting operations.

4.1.3 Finish Operation Marks

Operation marks caused by the finishing process are acceptable, provided that they are uniform and exhibit good workmanship quality, and are not in a critical appearance area of the product.

A.1.A Defects

No appearance defect will be allowed to affect the structural integrity or functional use of the affected part, regardless of its appearance at any viewing distance.

4.2 APPEARANCE

When a finish is viewed from the required distance, the finish shall not exhibit any imperfections, blemishes, or differences in color or texture that will immediately cause the viewer to focus att on upon them.



4.3 LIGHTING AND VIEWING CONDITIONS

The following lighting and viewing conditions shall be used in all inspections of the appearance quality.

4.3.1 Light Source

The light source shall be a cool white fluorescent lamp with uniform illumination and intensity between 100 and 125 foot candles (between 1076.4 and 1385.5 lumens per square meter).

4.3.2 Geometric Conditions

The lighting shall be primarily from an overhead source. The surface under inspection may be viewed at an angle between vertical and 45 degrees to allow perception of the surface.

4.3.3 Inspection Procedure

The inspector shall scan the surface in a continuous manner. Any defects that are immediately obvious, such as color mismatch or texture mismatch, shall be rejected. All judgments shall be made from "he specified viewing distance."

Note

It is acceptable to determine a texture and/or color match at a viewing distance other than that specified, if deemed necessary by quality control. This distance could be a normal and comfortable viewing distance.

5 SPECIFYING FINISH TYPE

Digital finish specifications identify the specific types of finishes that are acceptable for use on Digital products. These specifications provide the Digital Standard finish number, a description of the finish type and its use, any substrate limitations, and the appearance quality criteria. The desired finish for the part is specified by the insertion of the finish specification number 092-xxxx-CCC including the desired color designation (CCC from subhead 2.5) in the "Finish" block on the hardware drawing.



Note

Finishes, for which there are no specifications, will require testing prior to use on Digital products.

6 GENERAL FINISH RULES

The following general finish rules will be applied during the finishing process, unless otherwise specified by the engineering documentation for a specific part.

6 1 DRAWING COMPLIANCE

All drawing requirements shall be met after finish application, unless otherwise specified on the drawing. Finishes shall be in accordance with the first properties of the state of the st

6.2 METAL PARTS

All metal parts shall be painted with a baked paint, unless otherwise specified on the related drawing or unless baking temperatures affect the mechanical properties of the substrate.

6.3 NON-METAL PARTS

All non-metal parts that are permanently fixed or have only one surface which is normally visible on the outside of the cabinet, need only be painted on that visible surface and its adjacent edges. These surfaces may be painted either smooth or textured. Rofer to the specific drawing for the part in question.



6.4 THREADED HOLES OR FASTENERS

Threaded holes or fasteners on painted parts do not have to be masked prior to painting unless so specified on the drawing. However, in all cases, the painted fastener or threaded hole must accept its component part or the applicable thread xaugo.

6.5 HOOK CONTACT POINTS

Hook contact points, that is not interfere with further finish or processes such as silk-screening, are allowed, provided they are not more than 1/9 inch in area and do not degrade the finished product.

6.6 TOUCH-UP

All Digital finishes shall accept approved touch-up point with a suitable air-dry lacquer or enamel of a matching color to blend in visually as a uniform finish when viewed from the recommended viewing distance for the particular finish. Refer to Digital Engineering Specification A-SP-7650303-0-0.

6.7 APPROVAL

Paints, colors, and materials used on Digital parts must be approved by Digital.

7 GENERAL REQUIREMENTS FOR ALL DIGITAL FINISHES

The performance of finishes approved for use on Digital products shall provide surface protection when subjected to the specific types of conditions described in DEC STD 092, Section 3.

The appropriate tests and criteria described in DEC STD 192, Section 3 for the specific finishes and substrate will be applied to sample test panels, 4 inches by 6 inches to either evaluate a currently approved in in-house process or finish, or to evaluate and approve a new in-house process or finish. Test panel requirements and uses are described under subblead 3.



Note

In DEC STD 092, Section 3, all test criteriz are based upon a smooth finish 1.0 mil chick, unless otherwise specified.

Any print ordered from any supplier by any Digital facility, or vendor of Digital, for the purpose of painting production parts shall be approved, for color and gloss, by the Digital Materials Research Lab in MLO5-1, Naymard, before shipments are accepted from paint manufacturers.

Note

The minimum period of time between sample preparation and testing will be the time specified by the coating material supplier.

8 TEST PANELS

8.1 REQUIREMENTS

At the request of Digital, the finish applicator shall furnish a sinisum of five test panels of each base material to enable Digital to completely evaluate the paint process or finish according to DEC STD 092, Section 3. There will also be a minimum of three test panels required to completely evaluate all other finishes listed in DEC STD 092. Section 3.

Tests to evaluate the finishing process will be performed on panels per the requirements of 092-0250-xxx. Test panels shell be 1010CRS, or 5052-H32 aluminum, or applicable plastic, % inches X 6 inches X 24 sauge.

Test panels shall be prepared and finished in accordance with the individual finish specification.



8.2 TEST PANEL INFORMATION

Test panels submitted by the processor shall include the following information:

- a. The Digital Stand rd Finish specification number.
- b. If paint, indicate and identify the substrate sterial.
- Material manufacturer's name, in-house finishing line identification or vendor name (if samples are from an outside c. finisher).
- d. Material manufacturer's batch (lot) number (for paint finishes).
- e. Viscosity reading (for paint finishes).
- Baking temperature and time in oven (for baked paint f. finishes).
- g. Date test panels were prepared.



DEC

STANDARD 092, SEC. 2

REV. E

TITLE: FINISH AND COLOR STANDARD - FINISH MATERIAL STANDARD FOR SUPPLIERS

ABSTRACT: This standard defines the procedure to be followed, and the requirements to be met, by finish material suppliers.

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1 INTRODUCTION

1.1 PURPOSE

The purpose of this section is to define the requirements that material suppliers must meet to be qualified to provide materials for use in the finishes of Digital products.

1.2 SCOPE

This section covers material requirements, material tests, shipping requirements and procedures for handling samples and test panels.

1.3 RESPONSIBILITIES

1.3.1 Material Supplier

The material supplier shall be responsible for the following:

- a. Providing test panels and material samples to Digital as required in the standard.
- b. Supplying material that meets the requirements of this standard.

1.3.2 Digital Materials Research Lab

The Digital Materials Research Lab is required to provide the supplier with the standard color and texture panel to be used to match the finish desired by Digital, when requested with the approval of Digital.

The Lab shall receive and perform acceptance testing on the panels and material sample supplied by the supplier.

Digital shall notify the supplier of acceptance or rejection of the material or finish.





1.3.3 Systems Materials Engineering

The Systems Materials Engineering organization is responsible for any additions, deletions, or changes to this standard. For additional information, contact:

> Art Clockedile AC/M38, DTN: 232-2470

1.4 REFERENCED STANDARDS

DEC STD 892 Finish and Color Standard - Finish Section 3 Material Tost Requirements

2 REQUIREMENTS

2.1 SUPPLIER APPROVAL

To be qualified by Digital, a supplier must first contact Digital Purchasing and arrange for the submittal of test panels and samples to Digital.

To be qualified to provide material to a DEC STD 092 specification, the supplier must be capable of meeting the requirements of this standard.

2.2 NEW MATERIAL APPROVAL

2.2.1 Test Panels and Samples

Before a new material shall be approved by Digital, the supplier shall submit, for evaluation, a wet sample and five panels coated with the material being evaluated. The panels shall be made of CRS, Bonderite 1000, aluminum, or plastic, whichever is requested by Digital. The sample and panels shall be sent with any related data or documentation to Digital Materials Research Lab in Maynard for testing to environmental, physical and appearance quality criteria.



2.3 REQUIREMENTS FOR EVALUATION OF SAMPLES

Wet samples, or panels which are coated with the material, whether submitted for new material approval subhead 2.2. or batch (lot) approval subhead 2.4, shall be capable of meeting the requirements defined in the following paragraphs and Section 3 of DEC STD #92.

2.3.1 Paint Compatibility

2.3.1.1 Touch-up - The finish shall accept touch-up with a suitable air-dry touch-up enamel and/or lacquer of matching color.

2.3.1.2 Silk Screen Compatibility - Screening with silk screen materials on the cured surface shall have good adhesion.

2.3.1.3 Decal Compatibility - Decals applied to the cured surface shall have good adhesion.

2.4 BATCH (LOT) APPROVAL

2.4.1 Sample Submittal Preparation

Prior to shipping a batch (lot) of production material to Digital (or approved finishing vendor), the supplier shall prepare a wet and dry sample representing the batch (lot). The supplier shall submit these to Digital Materials Research Lab in Maynard.

2.4.2 Information Needed With Submitted Batch (Lot) Control Panels and Material Sample

With the set of batch (lot) control panels and material sample, the following information is required:

- a. The Digital Standard Finish specification number.
- b. If paint, indicate if air dry or bake finish, and identify the substrate material.



- c. Material manufacturer's name.
- d. Manufacturer's material code number.
- e. Manufacturer's batch (lot) number.
- f. Quantity of material in batch or lot.
- g. Eaking temperature and time in oven (for baked paint finishes).
- h. Date test panels and/or material sample were prepared.
- Name of the facility that the material is to be shipped to, and the amount to be shipped.

2.4.3 Evaluation of Material

After evaluating the material and the batch panels, the Digital Materials Research Lab shall notify the supplier of the acceptance or rejection of the batch (lot).

2.5 PREPARATION FOR SHIPMENT

2.5.1 Marking

Each container of the material shipment shall be identified and marked with the following:

Name of manufacturer Type of material Color name Digital color number Manufacturer's code number Purchase order number Batch (lot) number

and shall comply with any local regulations governing transportation.

2.5.2 Preservation and Packing

The material shall be preserved and packed in accordance with the best commercial practices and U.S. Department of Transportation regulations.



DEC

STANDARD

092, SEC. 3

REV. E

TITLE: FINISH AND COLOR STANDARD - FINISH MATERIAL TEST

REQUIREMENTS

ABSTRACT: This standard defines the test requirements and test methods applied to the finishes used for Digital parts.

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DATE	ECO #	ORIGINATOR	APPROVED	REV
5-Nov-81	Init.	Art Clockedile	Eng. Comm.	E

Document Identifier

Size	Code	Number	Rev
Α	DS	ELØØØ92-#3-Ø	E



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3	PHYSICAL TEST REQUIREMENTS	5-Nov-81	3-6
4	APPEARANCE QUALITY TEST REQUIREMENTS	5-Nov-81	3-8



REFERENCED DOCUMENTS

1.1 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM-R-376 Film Thickness

ASTM-D-523 Gloss

ASTM_D_878 Distilled Water Immersion

Copies of ASTM Standards may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

1.2 FEDERAL AND MILITARY STUDGEDS

PED. STD. 141A, Paint, Varnish, Lacquer and Related Materials, Methods of Inspection,

Sampling and Testing

Method 6861 Salt Spray

Humidity 6291 Taber Abrasion 6192

6293-1 Scratch Hardness 6221 Flexibility

Copies of referenced Pederal and Military Standards can be obtained from: The Naval Publications and Forms Center

DOD Single Stock Point 5881 Tabor Avenue

Philadelphia Pa 19120 Phone: 215-697-2000, Ext 3312

1.3 PUBLICATIONS

Threshold Limit Value for Toxic Dusts, Fumes and Mists, Federal Register Vol. 36, No. 185, May 29, 1971.

Copies can be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 29482.



2 ENVIRONMENTAL TEST REQUIREMENTS

2.1 TEST SAMPLE PREPARATION

The test panels to be subjected to the first four accelerated environmental tests shall be scribed through to the base material with a sharp instrument, in a line starting approximately 8.25-inch (6.15 ms) from the top edge, running parallel to and approximately one (25.4 ms) from the long edge, and ending approximately 8.25-inch (6.35 ms) from the long edge, and ending approximately 8.25-inch (6.35 ms) from the long edge, and ending approximately 8.25-inch (6.35 ms) from the long edge and ending approximately 8.25-inch (6.35 ms) from the long edge and ending approximately 8.25-inch (6.35 ms) from the long edge and ending approximately 8.25-inch (6.35 ms) from the long edge and ending approximately 8.25-inch (6.35 ms) from the long edge and ending approximately 8.25-inch (6.35 ms) from the long edge and ending approximately 8.25-inch (6.35 ms) from the long edge and edge a

2.2 ACCEPTANCE CRITERIA

When using the test methods specified in the following pargraphs and the using the state of the of ground state of the sta

2.3 SALT SPRAY

Federal Standard 141A, Method 6861 shall be used to determine salt spray resistance, using a 5% salt concentration.

2.4 SUMIDITY

Pederal Standard 141A, Method 6281 shall be used to determine humidity resistance.

2.5 DISTILLED WATER IMMERSION

ASTM-D-870 shall be used for this test.



194 7

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indicator Panels 23		23 walte	25 umlts	25 unite	35 units	:	į
Color and Texture	bet match .	dder raider	must match samples supplied by Digital	•			

MOTE 1 Thickness per Individual Finish specification anset. ruff 2 Culor per individual apecification and color sample, if evallable

2.6 CORROSIVE VAPORS

The test specimens shall be exposed, at room temperatures, to concentrated atmospheres of HF, HCl, SO, Cl., H, S and Nn. The concentration of each chemical (use shall 5e within the limits established by the American Conference of Governmental and Industrial Hygienists publication, Threshold Limit Value for Toxic Dusts, Parama and Hists. The test for each Individual chemical is to be performed separately, on the same test specimens.

3 PHYSICAL TEST REQUIREMENTS

3.1 SOLVENT RESISTANCE

Solvent resistance (also, completeness-of-cure) is determined by open deposed for solvent defined for each finish in Table 1-1.

a coated panel and rubbing with a cotton swab saturated with solvent. The coated panel and rubbing with a cotton swab saturated with solvent. The coated panel and rubbing with a cotton swab saturated with solvent. The coated panel solvent solvent panel solvent solvent panel solvent solvent panel solvent pa

It shall be considered acceptable if a slight removal of coating snows on the cotton swab and if the coating is softened slightly, but resumes original hardness after five minutes.

The tested area is allowed to show discoloration.

3.2 WEAR RESISTANCE TABER ABRASION

Federal Standard 141A, Method 5192 shall be applied using a Taber instrument with CS12 wheels with 1880 gram weight for amount of cycles noted in Table 3-1. No base material shall be visible through the subject coating or finish at end of test.

Note

The test panel shall have the required film thickness prior to test.

3.3 SCRATCH HARDNESS

Federal Standard 141A, Method 5383-1 shall be applied using a Princeton scratch tester with a sappnier needle. The roating sail not be sheared from the panel surface by the amount of weight required by Table 31.



3.4 PLEXIBILITY

Pederal Standard 141A, Method 6221 shall be used to determine flexibility of the paint film. There shall be no failure such as cracking or flaking of the film when using the diameter mandrel required in Table 3-1.

3.5 IMPACT

A Gardner 160 inch-pound impact tester with a 2-pound rod shall be used to subject the test specimen to the required inch-pounds of impact required by Table 3-1. There shall be no loss of adhesion or flaking of the paint film.

3.6 ADMESION-CROSS BATCH TEST METHOD

Using a sharp knife, 11 parallel cuts shall be made in the finish 8.125 inch apart and approximately one inch long, being sure the cuts penetrate to the base material. Eleven additional parallel cuts shall be made 0.125 inch apart, perpendicular to and crossing all the first 11 cuts. Scotch Brand #600 tape shall be applied over this area, using uniform pressure.

There shall be no more than 5 percent loss of film when the tape is swiftly pulled from the scribed area.

3.7 ADHESION - TAZE TEST METHOD

Scotch Brand #600 tape shall be applied on the jurface with uniform pressure, and shall be removed in a quick motion at 98 degrees to the surface. For acceptance, the finish shall remain unbroken after the tape is removed.

3.8 FILM THICKNESS

ASTM-E-376 shall be used to determine film thickness. When measured in several places over the surface of the finished part, the coating shall average the thickness required in Table 3-1.



4 APPEARANCE QUALITY TEST REQUIREMENTS

4.1 GLOSS

60 degree specular gloss test of ASTM-D-523-66T shall be used to determine gloss appearance quality. Gloss readings for smooth painted parts and indicator panels, when measured in several areas of the finished part, shall have the average gloss measure listed in Table 3-1.

Note

Gloss tests are only to be performed on smooth surfaces.

4.2 COLOR AND TEXTURE

The color and texture must match samples supplied by Digital.



DEC

STANDARD 092 SEC. 4

REV. F

TITLE: FINISH AND COLOR STANDARD - APPROVED FINISH SPECIFICATIONS

ABSTRACT: This standard contains a complete list of specifications for finishes approved for use on Digital products.

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DATE	ECO #	ORIGINATOR	APPROVED	REV
5-Nov-81	ML001	Art Clockedile	Eng. Comm.	E
9-Dec-82	ML002	Art Clockedile	Eng. Comm.	

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1 INTRODUCTION

1.1 PURPOSE

The purpose of this section is to list all the currently approved finish specifications and revisions, see Table 4-1, and a cross reference list of previous and current finish specifications numbers, see Table 4-2.

1.2 RESPONSIBILITY

The Systems Materials Engineering organization is responsible for any additions, deletions, or changes to this standard. For additional information, contact:

> Art Clockedile ACO/M38, DTN: 232-2470



Table 4-1. Approved Finish Specifications

Finish Number	Finish	Refer to Specification:
	Paint	
092-A10X-XXX	Smooth Paint Finish	A-SP-EL00092-04-A103
092-A11X-XXX	Smooth Paint Finish	1A-SP-EL00092-04-A11X
092-A12X-XXX	Smooth Paint Finish	A-SP-EL000933-A123
092-A13X-XXX	Texture Paint Finish	A-SP-EL00092-04-A133
092-A14X-XXX	Texture Paint Finish	A-SP-EL00092-04-A14X
092-A15X-XXX	Texture Paint Finish	: A-SP-EL00092-04-A153
092-A16X-XXX	Marking Paint Finish	A-SP-EL00092-04-A15)
092-A17X-XXX	Clear Hard Coat Finish	A-SP-EL00092-04-A17
092-A40X-XXX	Surface Preparation Finish	A-SP-EL00092-04-A40X
092-A41X-XXX	Texture Paint Finish For	1
	Plastic Covers	A-SP-EL00092-04-A41X
092-A45X-XXX	Epoxy Powder Coating (Black)	1A-SP-EL00092-04-A45X
092-A46X-XXX	Nylon Coating	A-SP-EL00092-04-A45X
092-A60X-XXX	Urethane Coating For Magnets	A-SP-EL00092-04-A60X
092-A65X-XXX	Black Conductive Nickel Paint	1A-SP-EL00092-04-A65X
	Metal Plating	}
092-B05X-XXX	Zinc Plate With Yellow Chromate	A-SP-EL00092-04-B05X
092-B06X-XXX	Zinc Plate With Yellow Chromate	A-SP-EL00092-04-B06X
092-B07X-XXX	Zinc Plate With Yellow Chromate	: A-SP-EL00092-04-B07X
092-B08X-XXX	Zinc Plate With Clear Chromate	: A-SP-EL00092-04-B08X
092-B09X-XXX	Bright Cadmium Plate	1A-SP-EL00092-04-B09X
092-B30X-XXX	Nickel Plate	A-SP-EL00092-04-B30X
	Conversion and Oxide Coatings	
		1
092-C20X-XXX	Caromate Conversion Coating	1
	On Aluminum (Yellow)	A-SP-EL00092-04-C20X
092-C21X-XXX	Chromate - Clear	A-SP-EL00092-04-C21X
092-C25X-XXX	Surface Preparation For Painting	A-SP-EL00092-04-C25X
092-C28X-XXX	One-Coat Conversion Coating For	1
	Non-Ferrous Castings	A-SP-EL00092-04-029X
092-C35X-XXX	Anodizing (Sulphuric) Acid	A-SP-EL00092-04-C35X
	Anodizing (Chromic) Acid	A-SP-EL00092-04-C36X
092-C36X-XXX		
092-C38X-XXX	Black Anodizing	
092-C38X-XXX 092-C39X-XXX	Anodic Hard Coating	A-SP-EL00092-04-C39X
092-C38X-XXX		



Table 4-2. Finish Cross-Reference List

Previous Numbering Format	Current Numbering Format	Description
92-00010-00A	092-A010-XXX	Refer to 292-A150-000
92-00010-00B	092-A010-XXX	Refer to 092-A150-000
92-00020-00	092-A020-XXX	Refer to 092-A100-000, 092-A110-000, 092-A120-00
92-00030-00	092-A030-XXX	Refer to 092-A100-000, 092-A110-000, 092-A120-00
92-00040-00	092-A040-XXX	Refer to 392-A100-000, 092-A110-000, 092-A120-00
92-0010(0-00)	092-A102-XXX	External Decorative Panel
92-0011(0-00)	092-A113-XXX	External Control Panels and Parts Smooth Paint
92-0012(0-00)	092-A125-XXX	Internal Parts and Assem- blies Smooth paint
92-0013(0-00)	092-A134-XXX	External Castings Texture Paint
92-0014(0-00)	092-A145-XXX	: Internal Castings Texture
92-0015(0-00)	092-A154-XXX	External Textured Paint Parts
92-0016(0-00)	092-A162-XXX	Hot Stamping applies to Logos, Nameplates, etc.
92-0017(0-00)	1 092-A172-XXX	Clear Hard Coat
92-0040(0-00)	392-A400-XXX	Surface Preparations for Painted Plastic Parts
92-0041(0-00)	392-A414-XXX	Texture Paint Finish for Plastic Covers
92-0045(0-00)) 192-A454-XXX	Epoxy Powder Coating
92-0046(0-00)	092-A464-XXX	Black, Nylon Powder Coating
92-0060(0-00)	; 092-A604-XXX	Urethane Coating
92-0005(9-00)	392-B055-XXX	; Zinc Plating with Yellow ; Chromate (0.0002)
92-0006(0-00)) 392-8065-XXX	; Zinc Plating with Yellow ; Chromate (0.00075)
92-0007(0-00)	992-B075-XXX	Zinc Plating with Yellow Chromate (0.00075)
92-0008(0-00)	392-B085-XXX	: Bright Zinc Plating, Clas : Chromate
92-0009(0-00)	392-B095-XXX	: Bright Cad Plating, Clear : Chromate
92-0030(9-00)	092-3304-XXX	Electroless Nickel Plati: for Iron Base or Aluminar Base Metal Alloys



Table 4-2. Finish Cross-Reference List (Cont'd)

Previous Numbering Format	Current Numbering Format	Description
92-0020(0-00)	092-C205-XXX	Chromicoat - Alodine - Irridite - Surface Pre- paration for Aluminum
92-0021(0-00)	392-C215-XXX	Chromicoat - Clear
92-0025(0-00)	092-C255-XXX	Surface Preparation for Painting
92-0028(0-00)	092-C285-XXX	One-Coat Conversion Coat ing for Non-Ferrous Castings
92-0035(0-00)	092-C354-XXX	Anodizing (Sulfuric Acid
92-0036(0-00)	: 092-C364-XXX	Anodizing (Chromic Acid)
92-0038(0-00)	092-C384-XXX	Black Anodizing
92-0039(0-00)	392-C394-XXX	Anodic Hard Coating on Aluminum and Aluminum Alloys
(0-00)(ز-20-92	: 092-C505-XXX	Black Oxide



DEC

STANDARD 092 SEC. 5 REV. E

TITLE: FINISH AND COLOR STANDARD - DIGITAL COLOR LIST

ABSTRACT: This standard contains a list of currently approved Digital colors and color identification numbers.

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Table	5-1.	Current Numbers	Colors	and	Color	Ident	ification	5-Nov-81	5-3

Table 5-1. Current Colors and Color Identification Numbers

892-YXXX-	First Used On	Name	Reference
865	Old DEC Cabs	Silver	
867	Old DEC Cabs	Blue-Gray	i
868	General	Light Gray	i
Ø94	Cabinets	Lamp Black	CHM Grayscale P
895	General	Chinese Red	MUN (18YR4/12), CHM 6PC
101	End Panels	Gray	CHM Gray Scale D
192	Packaging		IPI 66C 95#
194	Module	Brite Gold	CHM 2 PC
105	LAB-COM	Gray	CHM Gray Scale G
111	PDP16	Deep Peacock Blue	CHM 16 PC
113	PDP8/I	Dark Luggage Tan	MUN (5 YR4/8),CHM 4
114	PDF18		CHM 24-1/8 EC
115	PDP16		CHM 16 EC
116	Peripherals		CHM 24-1/2 PC
123	General I	White	MUN (N9.5),CHM Gray Scale
126	PDP8/L		! CHM 4 NC
129	PDP12	Lime Peel	CHM 24 PG
130	PDP12 i	Brite Chartreuse	CHM 24-1/2 LA
131	PDP15	Brite Copen Blue	MUN (2.5PB 5/10),C
135	PDP15	Brite Navy	CHM 13-1/2 PG
136	PDP14		MUN (10YR6/10),CHM 3
137	General	Vermillion	MUN (10YR5/14),CHM 6 CHM 1 M1
138	Peripheral Switch		
139	PDP11 PDP11		CHM 8 NA
140		Amber	
141	PDP8/E PDP8/E		MUN (18 YR6/12), CHM 3 CHM 5 PE
	KI18		1 MUN (7.5 BG4/6),CHM
	I KIIG		
145			CHM 16 PE
146			! CHM 11 PE ! CHM Grav Scale L
147 148		Dark Gray Blasi Blue	CHM Gray Scale L CHM 16 NC
149	I IDAC 11/07		MUN (10YR5/10)
150	IDAC 11/07 KI10	Clove Brown	MUN (10YR3/4)
151 152		Light Aqua Alexander Grape	CHM 17 LA CHM 9 PL
	NEMA Cabinets		CHM 9 PL
153			HIDI (7 FD3/6)
154	DECDATA System PDP11		MUN (7.5R3/8) MUN (7.5R2/8)
155 156	GT40	Crabbe Yellow	MUN-5Y 7/10
157	GT40		MUN-51 //10
158	PDP8		1 MUN-2.5YR3/8
159	Corp. Ident.		PMS Process Blue
160	Med. Systems	Blue Janice	MUN-7.5PB 3/12
100	neu. systems		1 (10th-1-3FD 3/12



Table 5-1. Current Colors and Color Identification Numbers (Cont'd)

192-XXXX-	First Used On	Name	Reference
161	ANT'S (OEM)	ANT'S Orange	Customer Chip
162	ANT'S (CEM)	ANT'S Blue	Customer Chip
163	Philips (OEM)	Philips Blau	Customer Chip
164	Industrial	D.C. Blue	MUN 5PB 3/10
166	W.U. (OEM)	Western Union Blue	Customer Chip
167	Industrial	Can-Red	I.H.C.
169	General	Red Defuser	I.H.C.
178	General	Colorless Defuser	I.H.C.
171	Key Controls	Button Red	G.E. MVCL
172	Dust Covers	I Smokey Lexan I	G.E. MVCL
173	PDP 8/A	Fog Defuser	I.H.C.
174	Bell Sys (OEM)	Bell Gold	Customer Chip
175	Bell Sys (OEM)	Bell Blue	Customer Chip
176	Foxboro (CEM)	Light For Green	Customer Chip
177	Foxboro (OEM)	Dark Fox Green	Customer Chip
178	PDP/15	Blue Devlin Defuser	I.H.C.
	General	OSHA Yellow	I.H.C.
186	General	OSHA Blue	I.H.C.
	General	OSHA Green	I.H.C.
182	General	I OSHA Orange	T.H.C.
183	General	OSHA Red	т.н.с.
184	General	OSHA Magenta	CHM-9-DA
185	General	Corn Gold	I.H.C.
	i		
136	Data Systems	Mullen Blue	
187	OEM	Bell Canada Gray	Customer Chip
188	General		I.H.C.
189	General		I.H.C.
198	PDP-11/60 CAB	PREFER - RED	I.H.C.
191	OEM		Customer Chip
192	OEM	Canada Post Red	S/S Ink I.H.C
193	VT100	Digital Brown	I.H.C.
195	General	Charcoal	I.H.C.
196	Labels	Label Code Blue	Inks PMS 386
197	Labels	Label Code Green	Inks PMS 375
198	Labels	Label Code Pink	Inks PMS 191
199	Labels	Label Code Furple	Inks PMS 528
288	Labels		Inks PMS 151
201	Labels		Inks PMS 189
282	Labels	Label Code Tan	Inks PMS 472
283	Labels	Label Code Dark Orange	Inks PMS 166
284	Labels	Label Code Yellow Orcher	Inks PMS 117
285	Labels	1 Label Code Brown	Inks PMS 147
286	Labels	Label Code Olive	Inks PMS 391
287	i	D.F. Gray Defuser	I.H.C. Silk
	i		Screen Ink



Table 5-1. Current Colors and Color Identification Numbers (Cont'd)

892-XXXX-	First Used On	Name	Reference
208		Gray Lexan	G.E. 9030-713
229 1		1 Trans Bronze	! Flex-Vu M-103 8:
210		Yellow Defuser	I.H.C. Silk Screen Ins
211		Green Defuser	! I.H.C. Silk ! Screen Ink
212		Bold Blue	Cycolac T-5588 (Keycaps)
213		Mellow White	Cycolac T-2502 (Keycaps)
214		Old Gray	(Keycaps)
215 !		A.J. Brown	G.E. Noryl N-190-50133
215		A.J. Beige	G.E. Noryl N-193-53192

I.H.C. = In-House Calar

