

QA RQMTS FOR MATL CONTL & IDENT
GENERAL

MANUFACTURERS SHALL HAVE AN EFFECTIVE MATERIAL QUALITY PROGRAM/MATERIAL CONTROL AND IDENTIFICATION SYSTEM WHICH COMPLIES WITH THE REQUIREMENTS OF THE APPLICABLE PROCUREMENT SPECIFICATIONS OR DRAWINGS AND WHICH WILL PERMIT THE ISSUANCE OF SUFFICIENT OBJECTIVE QUALITY EVIDENCE* REGARDING MATERIALS AND COMPONENTS AT THE TIME OF SHIPMENT. OBJECTIVE QUALITY EVIDENCE WILL BE REQUIRED FOR THE MATERIAL (SEPARATELY FURNISHED OR IN ASSEMBLIES) IDENTIFIED AS "LEVEL I" IN THE LIST OF MATERIALS IN THE BASIC DESIGN DOCUMENT, OR GIVEN AS SUPPLEMENTAL INFORMATION FORMING PART OF THE PROCUREMENT DOCUMENT.

THE MANNER IN WHICH REQUIRED OBJECTIVE QUALITY EVIDENCE IS DEVELOPED BY THE MANUFACTURER SHALL BE CONTROLLED BY A WRITTEN PROCEDURE OR PROCEDURES. THESE INSTRUCTIONS SHALL BE CLEAR AND CONCISE. THE OBJECTIVE QUALITY EVIDENCE FOR THE ACTUAL ITEM BEING SHIPPED SHALL BE REPRESENTATIVE OF THE INDIVIDUAL HEAT, MELT, BATCH, OR HOMOGENEOUS LOT** AS DEFINED IN THE APPLICABLE SPECIFICATION AND SHALL BE IN COMPLIANCE WITH THE INVOKED ACCEPTANCE CRITERIA. HOWEVER, FOR CONTINUOUS MELT OR CONTINUOUS POUR PROCESSES, THE OBJECTIVE QUALITY EVIDENCE SHALL BE REPRESENTATIVE OF THE TIME PERIOD (AS DETERMINED BY THE INVOKED SPECIFICATIONS) DURING WHICH THE MATERIAL WAS POURED.

OBJECTIVE QUALITY EVIDENCE (OQE)

QUANTITATIVE DATA OF ALL MECHANICAL AND CHEMICAL TESTS PERFORMED TO SUBSTANTIATE THAT MATERIAL SUPPLIED COMPLIES WITH ITS PROCUREMENT SPECIFICATION AND ACCOMPANYING ORDERING DATA.

HOMOGENEOUS LOT - LOT OF MATERIAL IN WHICH EACH PIECE IS MANUFACTURED FROM THE SAME HEAT, BATCH OR MELT AND SUBJECTED TO THE SAME PRODUCTION PROCESSES UNDER THE SAME CONDITIONS AND AT THE SAME TIME AND REPRESENTED BY A

UNIQUE SET OF PHYSICAL, MECHANICAL AND CHEMICAL RESULTS. IF A CONFLICT EXIST BETWEEN THIS DEFINITION AND THE DEFINITION GIVEN IN THE INVOKED MATERIAL SPECIFICATION; THE MATERIAL SPECIFICATION DEFINITION SHALL APPLY.

TEST REPORTS AND CERTIFICATIONS

MANUFACTURES SHALL PROVIDE TOTAL AND COMPLETE TRACEABILITY FOR ALL LEVEL I MATERIAL SUPPLIED INCLUDING LEVEL I PARTS OF ASSEMBLIES AND LEVEL I PARTS OF COMPONENTS. THIS TRACEABILITY REQUIRES CERTIFIED MATERIAL TEST REPORTS FROM THE PRODUCER OF THE RAW MATERIAL (MILL) WHICH CONTAIN QUANTITATIVE MECHANICAL AND CHEMICAL DATA (OBJECTIVE QUALITY EVIDENCE). WHERE THE MECHANICAL PROPERTIES OF THE MATERIAL HAVE BEEN ALTERED BY HEAT TREATMENT OR METAL WORKING PROCESSES, THE MILL CERTIFICATION SHALL BE ACCOMPANIED BY A CERTIFICATION FROM THE HEAT TREATMENT OR METAL WORKING FACILITY, WHICH CONTAINS QUANTITATIVE RESULTS OF THE MECHANICAL TESTS PERFORMED TO PROVE THAT THE MATERIAL SUPPLIED COMPLIES WITH THE SPECIFICATION TO WHICH IT WAS PROCURED.

THE ONLY ALTERNATIVE PERMITTED TO THE ORIGINAL MILL, HEAT TREATMENT, OR METAL WORKING FACILITY CERTIFIED TEST REPORTS, OR EXACT COPIES THEREOF, IS A TESTING LABORATORY'S QUANTITATIVE TEST REPORT, IDENTIFIABLE AND TRACEABLE TO THE MATERIAL IT REPRESENTS. TRANSCRIPTION OF DATA FROM THE ORIGINAL MILL, HEAT TREATMENT, OR METAL WORKING FACILITY CERTIFICATION OR FROM A TEST LABORATORY TEST REPORT, TO A CONTRACT OR/SUPPLIER FORM IS PROHIBITED.

IN ADDITION TO THE ABOVE REQUIREMENTS, THE TEST REPORTS/CERTIFICATIONS SHALL ALSO COMPLY WITH THE ORDERING DATA AND THE INVOKED SPECIFICATIONS.

MARKING REQUIREMENTS

PERMANENT MARKING BY THE MANUFACTURER IS

REQUIRED ON ALL LEVEL I MATERIAL, SEPARATELY FURNISHED OR IN ASSEMBLIES. THE PERMANENT MARKING MUST PROVIDE THE FOLLOWING INFORMATION (ADDITIONAL MARKING TO THAT REQUIRED BELOW IS PERMITTED WHERE REQUIRED OR ALLOWED BY PURCHASE SPECIFICATIONS):

1. THE KIND OF MATERIAL. THE SPECIFIC MATERIAL IDENTIFICATION CODE IN ACCORDANCE WITH EB-3952 REV F.
2. SUPPLIER TRACEABILITY CODE. A CODE THAT PROVIDES POSITIVE TRACEABILITY TO THE UNIQUE OBJECTIVE QUALITY EVIDENCE OF THE PIECE OF MATERIAL INCLUDING HEAT, MELT, BATCH OR HOMOGENEOUS LOT AND ALL MANUFACTURER TEST AND INSPECTION INFORMATION. FOR CONTINUOUS PROCESS MATERIALS, THE SPECIFIC TRACEABILITY PROVISIONS OF APPLICABLE PROCUREMENT SPECIFICATIONS APPLY.
3. THE MANUFACTURER'S NAME, TRADEMARK, OR SYMBOL.

NOTE:

IF ALL THE MARKING CANNOT BE APPLIED DUE TO SPACE LIMITATIONS, THE SELLER SHALL INFORM THE BUYER VIA THE VENDOR INFORMATION REPORT (VIR), FORM NO. 84-01-2205, AND REQUEST PERMISSION TO PERMANENTLY MARK THE MATERIAL USING THE ORDER OF PRECEDENCE ABOVE. THE SELLER SHALL LIST THE MARKING THAT WILL BE APPLIED AND THE REASON WHY ALL THE MARKINGS CANNOT BE APPLIED.

MARKING SHALL BE APPLIED IN ACCORDANCE WITH THE PERMANENT MARKING REQUIREMENTS OF MIL-STD-792 OR APPLICABLE APPROVED SPECIFICATIONS AND DRAWINGS EXCEPT THAT MARKINGS BY VIBRO-TOOL, INTEGRAL MARKING AND IMPACT MARKING OF FASTENERS MANUFACTURED FROM HARDENED MATERIAL IS PERMITTED. THE LOCATION OF MARKINGS ON FASTENERS SHALL BE AN UNSTRESSED AREA.

ALL MARKINGS SHALL BE LEGIBLE. MARKING SHALL BE LOCATED AS NOT TO AFFECT FORM, FIT OR FUNCTION OF THE ITEM.

MARKING SHALL BE ACCESSIBLE TO PERMIT IDENTIFICATION WITHOUT DISASSEMBLY, EXCEPT FOR JUSTIFIABLE SITUATIONS WHEN ALTERNATIVE METHODS OF IDENTIFICATION SHALL BE USED TO IDENTIFY THESE MATERIALS.

THOSE ITEMS WHOSE SIZE, TYPE, OR CONDITION PRECLUDES SOME OR ALL PERMANENT MARKING FROM BEING APPLIED SHALL BE PACKAGED AND THE PACKAGE LABELED WITH MARKING REQUIRED. ALL MATERIAL IN THE PACKAGE MUST BE IN THE SAME HOMOGENEOUS LOT. WHEN REMOVING ANY MATERIAL FROM THE PACKAGE, ALL MATERIAL MUST BE LABELED OR TAGGED WITH ALL THE MARKINGS ON THE PACKAGE, UNLESS BEING REMOVED FROM THE PACKAGE FOR IMMEDIATE INSTALLATION.

PERMANENT MARKING IS NOT REQUIRED FOR SMALL** ITEMS INCLUDED AS PART OF THE PRESSURE BOUNDARY OF A COMPLETED ASSEMBLY. CERTIFICATION STATEMENTS RELATING THE SMALL ITEMS TO OBJECTIVE QUALITY EVIDENCE SHALL BE PROVIDED.

SMALL ITEMS

ITEM WITH MARKING SURFACE THAT IS LESS THAN 1/2 OF A SQUARE INCH.