(c) Material Not Fully Identified. Material that cannot be
qualified under the provisions of either (a) or (b), such as
material not fully identified as required by the permitted
specification or unidentified material, may be accepted as
satisfying the requirements of a specification permitted
by this Section, provided that the conditions set forth be-
low are satisfied.

(1) Qualification by an Organization Other Than the
Vessel or Part Manufacturer. Not permitted.

(2) Qualification by the Vessel or Part Manufacturer
(-a) Each piece is tested to show that it meets the
chemical composition for product analysis and the me-
chanical property requirements of the permitted specifi-
cation. Chemical analyses need only be made for those
elements required by the permitted specification. How-
ever, consideration should be given to making analyses
for elements not specified in the specification but which
would be deleterious if present in excessive amounts.
For plates, when the direction of final rolling is not
known, both a transverse and a longitudinal tension test
specimen shall be taken from each sampling location de-
signated in the permitted specification. The results of
both tests shall conform to the minimum requirements
of the specification, but the tensile strength of only one
of the two specimens need conform to the maximum
requirement.

(-b) The provisions of (b)(2)(-c), (b)(2)(-d), and
(b)(2)(-e) are met.

(-c) When the identity of the material with the
permitted specification has been established in accor-
dance with (-a) and (-b), each piece (or bundle, etc., if per-
mitted in the specification) is marked with a marking
giving the permitted specification number and grade,
type, or class as applicable and a serial number identify-
ing the particular lot of material. A suitable report, clearly
marked as being a “Report on Tests of Nonidentified Ma-
terial,” shall be completed and certified by the tank or part
Manufacturer. This report, when accepted by the Inspect-
or, shall constitute authority to use the material in lieu of
material procured to the requirements of the permitted
specification.

TM-130 MATERIAL SPECIFICATIONS

TM-130.1 PRODUCT SPECIFICATION

When there is no material specification listed in Tables
TM-130.2-1 through TM-130.2-7 covering a particular
wrought product of a grade, but there is an approved
specification listed in Tables TM-130.2-1 through TM-130.2-7 covering some other wrought product of that
grade, the product for which there is no specification may
be used, provided:

(a) the chemical and mechanical properties, heat treat-
ing requirements, and requirements for deoxidation, or
grain size requirements conform to the approved specifi-
cation listed in Tables TM-130.2-1 through TM-130.2-7.
The stress values for that specification given in the tables
referenced in TM-130.2 shall be used.

(b) the manufacturing procedures, tolerances, tests,
and marking are in accordance with a specification listed
in Tables TM-130.2-1 through TM-130.2-7 covering the
same product form of a similar material.

(c) for the case of welded tubing made of plate, sheet,
or strip, without the addition of filler metal, the appro-
priate stress values are multiplied by a factor of 0.85.

(d) the product is not pipe or tubing fabricated by fu-
sion welding with the addition of filler metal unless it is
fabricated in accordance with the rules of this Section
as a pressure part.

(e) mill test reports reference the specifications used in
producing the material and make reference to this
paragraph.

TM-130.2 APPROVED MATERIAL

SPECIFICATIONS

(a) Approved material specifications are listed in the
following Tables:

| Table TM-130.2-1 | Carbon and Low Alloy Steel |
| Table TM-130.2-2 | High Alloy Steel |
| Table TM-130.2-3 | Aluminum and Aluminum Alloy Products |
| Table TM-130.2-4 | Copper and Copper Alloys |
| Table TM-130.2-5 | Nickel and High Nickel Alloys |
| Table TM-130.2-6 | Ferritic Steels With Tensile Properties Enhanced by Heat Treatment |
| Table TM-130.2-7 | Titanium and Titanium Alloys |

(b) The maximum allowable tensile stress values for
the materials listed in Tables TM-130.2-1 through TM-130.2-7 are the values given in Section II, Part D, for
Section VIII, Division 1 construction, except where other-
wise specified or limited by Table TM-130.2-1, Note (1):
Table TM-130.2-2, Notes (1) and (2); Table TM-130.2-5,
Note (1); and Table TM-130.2-7.

See text next page for insertion AFTER Table
TM-130.2-7
TM-130.3 MATERIAL PROPERTIES

When the rules of this Section require the use of material physical properties, these properties shall be taken from the applicable tables in Section II, Part D, Subpart 2. If the applicable tables in Section II, Part D, Subpart 2 do not contain these properties for a permitted material or do not list them within the required temperature range, the Manufacturer may use other authoritative sources for the needed information. The Manufacturer’s Data Report shall note under “Remarks” the property values obtained and their source.

NOTE: If material physical properties are not listed, the Manufacturer is encouraged to bring the information to the attention of the ASME Committee on Materials (BPV Section II) so that the data can be added in Section II, Part D, Subpart 2.