

INCH-POUND

MIL-H-6875H AMENDMENT 1 16 July 1993

MILITARY SPECIFICATION

HEAT TREATMENT OF STEEL, PROCESS FOR

This amendment forms a part of MIL-H-6875H, dated 1 March 1989, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 4

3.1.1.1: For "Nitrogen", under the "Class D" column, delete "No" and substitute "X = 10/", and add a new footnote:

"10/ The use of a nitrogen atmosphere shall be limited to heat treating temperatures of 1400°F and below. A nitrogen atmosphere may be used for heat treatment above 1400°F provided a minimum of 0.020 inches of metal is subsequently removed from all surfaces of heat treated material."

3.1.1.1: For "Vacuum", under the "Class D" column, add "11/" next to the "X", and add a new footnote:

"<u>11</u>/ Nitrogen is not permitted as a partial pressure above 1400°F. Nitrogen may be used as a backfill quench for vacuum heat treatments performed at or below 1925°F."

PAGE 20

Footnote <u>12</u>/: Delete and substitute:

"Cooling in air or other gases is optional for small parts up to, and including, 0.250 inches in thickness. For 440C, cool to -90° F or lower immediately after quenching and before tempering and soak for 2 hours minimum; the delay between guenching and sub-zero cooling shall not exceed 1 hour."

AMSC N/A l of 2 FSC 95GP Distribution Statement A. Approved for public release; distribution is unlimited.



MIL-H-6875H AMENDMENT 1

PAGE 21

Footnote <u>19</u>/: Delete and substitute:

"Cool immediately after quenching and before tempering; delay shall not exceed 1 hour. Cool to -90°F or lower, and soak for 1 hour minimum.

PAGE 22

TABLE ID:

.

Delete the "1700" solution treatment temperature for "Custom 450" and substitute "1900".

PAGE 23

Footnote 4/: Add: "The tolerance on this calculated soak time shall be +10 to -0 minutes."

Footnote 16/: Delete: "...4 hours...", and substitute "...4 to 6 hours...".

Custodians: Army - MR Navy - AS Navy - AS Air Force - 11 Review activities: Army - AR, AV, EA, MI Navy - OS Air Force - 84, 99 DLA - IS User activities: Army - AT