



ASTM A500 Type E, Grade A, B, C Pipe

SUBMITTAL DATA

SCOPE

Covers bare and black electric resistance welded, Grade A, B, C pipe. Light-weight pipe is suitable for joining by welding and by rolled grooving while the standard-weight pipe is suitable cut or rolled groove, threading, and welding. Produced to latest revision of ASTM A500/A500M.

BLACK PIPE

The average thickness of black water base paint is 1 mil on the outside surface of the pipe.

HYDROSTATIC TESTING and NONDESTRUCTIVE ELECTRIC TESTING

Not required.

END FINISH

Plain end: Ends are beveled top a angle of 30°, + 5° – 0° with a root face of 1/16 ± 1/32;

Threaded: To ANSI Standard B1.20.1; **Couplings:** To ASTM Standard A865; **Rolled groove:** CSA B242 standard.

CHEMICAL REQUIREMENTS

Composition, maximum % (grade A, B) : Carbon: 0.26, Manganese: 1.35, Phosphorus: 0.035, Sulfur: 0.035;

Composition, maximum % (grade C) : Carbon: 0.23, Manganese: 1.35, Phosphorus: 0.035, Sulfur: 0.035.

TENSILE REQUIREMENTS

GRADE A : Tensile strength: minimum 45000 psi (310 MPa), Yield strength: minimum 33000 Psi (230 Mpa), Elongation: minimum 25%;

GRADE B : Tensile strength: minimum 58000 psi (400 MPa), Yield strength: minimum 42000 Psi (290 Mpa), Elongation: minimum 23%;

GRADE C : Tensile strength: minimum 62000 psi (425 MPa), Yield strength: minimum 46000 Psi (315 Mpa), Elongation: minimum 21%;

FLATTENING TEST

As a test for quality of the weld, position of the weld at 90° from the direction of force and flatten until the OD is 2/3 of the original outside diameter. No cracks shall occur along the inside or outside surface of the weld.

DIMENSIONS AND WEIGHTS (plain end)

NPS	OD inches	S10 wall inches	S40 wall inches	S80 wall inches
1/2	0.840	0.083	0.109	0.147
3/4	1.050	0.083	0.113	0.154
1	1.315	0.109	0.133	0.179
1 1/4	1.660	0.109	0.140	0.191
1 1/2	1.900	0.109	0.145	0.200
2	2.375	0.109	0.154	0.218
2 1/2	2.875	0.120	0.203	0.276
3	3.500	0.120	0.216	0.300
3 1/2	4.000	0.120	0.226	0.318
4	4.500	0.120	0.237	0.337
5	5.563	0.134	0.258	0.375
6	6.625	0.134	0.280	0.432

PERMISSIBLE VARIATIONS IN WALL THICKNESS , IN OUTSIDE DIAMETER, IN WEIGHT PER FOOT

Minimum wall thickness at any point shall not be more than 10% under the specified nominal wall thickness.

Maximum wall thickness at any point shall not be more than 10% over the specified nominal wall thickness.

Pipe diameter NPS 1 1/2 and under: ± 0.50%.

Pipe diameter NPS 2 and over: ± 0.75%.

PRODUCT MARKING

- Each pipe can be stenciled to show the manufacturer name, "Made in Canada", the grade of pipe (ASTM A500), the kind of pipe (E for electric-resistance welded), the Grade (A, B or C), the size, length, the letters "HT" if hydrostatically tested, and date.

- Bar coding is acceptable as a supplementary identification number.

- If the pipe is not stenciled, the product identification will be on the tag attached to each bundles of pipes.

All information contained herein is accurate as know at the time of publication. Nova Tube Inc. reserves the right to change product specifications without notice and without incurring obligation (January 4th, 2017)

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