

SECTION 15055

PLUMBING SOLDER

PART GENERAL

SECTION INCLUDES

Lead-free plumbing solder.

RELATED SECTIONS

Section 15140 - Domestic Water Piping.

Section 15182 - Hydronic Piping.

Section 15410 - Plumbing Fixtures.

Section 15450 - Potable Water Storage Tanks.

Section 15460 - Domestic Water Conditioning Equipment.

Section 15470 - Domestic Water Filtrating Equipment.

Section 15480 - Domestic Water Heaters.

Section 15490 - Pool and Fountain Equipment.

Section _____ - _____.

REFERENCES

ASTM B 32 - Solder Metal.

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PART PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: Taracorp/IMACO, Inc., 1690
Lowery Street, Winston-Salem, NC 27101-5603; ASD. Tel:
(910) 777-8600 or (800) 334-5266, Fax: (800) 637-6697

Requests for substitutions will be considered in
accordance with provisions of Section 01600.

Substitutions: Not permitted.

Provide all plumbing solder from a single manufacturer.

MATERIALS

Plumbing Solder: Sterling(R) solder, ASTM B 32, Alloy Grade TC; 95 percent tin, 4.85 percent copper, 0.15 percent selenium.

Melting Temperature: 410 degrees F (210 degrees C).

Tensile Strength: 7,130 psi (49.2 MPa).

Shear Strength: 5,979 psi (41.3 MPa).

Elongation Percent: 19.1.

Brinell Hardness: 15.1.

Burst Strength: 5,800 psi (40.0 MPa).

Pressure/Temperature Test Data on Copper Tube Assemblies comprised of 3 inch (75 mm), 2 inch (50 mm), 1 inch (25 mm), 3/4 inch (19 mm), and 1/2 inch (12.7 mm) Tubing with a Reducing Tee:

No leaks at 70 degrees F (21 degrees C), 200 psi (14,060 g/sq. cm), held for 2 minutes.

No leaks at 180 degrees F (82 degrees C), 200 psi (14,060 g/sq. cm), held for 2 minutes.

No leaks at 70 degrees F (21 degrees C), 2,000 psi (140,600 g/sq. cm), held for 5 minutes.

PART EXECUTION

INSTALLATION

Apply plumbing solder as required by other Sections of these Specifications.

END OF SECTION