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| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | June 25, 2014 | First draft review comments (AV) |
| 3 | June 8, 2015 | Second Draft for Review (AV) |
| **4** | **September 16, 2015** | **Updated, Finalized Specification – Reference eDOCS #5823652-v4 (AV)** |
| 5 | August 15, 2017 | Removal of specified products (CPD PMO, OMM) |

NOTE:

This is a CONTROLLED Document. Any documents appearing in paper form are not controlled and should be checked against the on-line file version prior to use.

**Notice:** This Document hardcopy must be used for reference purpose only.

**The on-line copy is the current version of the document.**

## References:

### American Society for Testing Materials (ASTM)

#### [ASTM A179/A179M-90a(2012),](http://www.astm.org/Standards/D2665.htm) [Standard Specification for](http://www.astm.org/Standards/D4104.htm) Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser Tubes

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| General | High-pressure application, bare carbon steel tubing, 12,410 kPa operating pressure. | | | | | | | |
| MAXIMUM ALLOWABLE PRESSURE/TEMPERATURE | | | | | | | | |
| Pressure, kPa | | 13,790 |  |  | |  |  |  |
| Temperature, degrees Celsius | | 65.5 |  |  | |  |  |  |
| Corrosion Allowance: 0.0 mm | | | | | | | | |
| Notes: | | | | | | | | |
| Item | Size | Description | | | | | | |
| Tubing | 10 mm – 20 mm | Bare carbon steel, ASTM A179/A179M-90a(2012), Hardness 72 Rockwell B HRB, or less. | | | | | | |
| Tubing Schedule | Size, OD | 10 mm | | | 12 mm | | 20 mm | |
| Min. Wall Thickness | 0.889 mm | | | 1.245 mm | | 1.651 mm | |
| Tube Fittings | All Sizes | Carbon steel, compression type (flareless). | | | | | | |

**END OF SECTION**