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API RP 581 – RISK BASED INSPECTION METHODOLOGY
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Ballot ID: 6030

Title: API 581 Table 2.D.3.3

Purpose: Finalize changes of API 583 alignment after ballot resolution

Impact: Minor to moderate for CUI assets using specific insulation types. More conservative corrosion rates for Unknown and older materials (i.e., Asbestos and non-water-resistant Mineral Wool).

Rationale: API 583 was recently updated to include new insulation technologies for tables A.1 and A.5. The ballot team took these values into consideration in editing API 581 Table 2.D.3.3. The changes show:

1. the move away from the trade name “Foamglass” to the more generic term “Cellular Glass”.
2. The addition of ASTM compliant versions with an appropriate reduction.
3. The addition of CUF materials from API 583, A.5
4. Changes in adjustment factors to align with the respective parameter types in the API 583 tables.

The first table in the ballot shows the proposed changes to the Table.
 The remaining tables serve as a reference and demonstrate the groupings for adjustment factor changes.

Technical Reference(s): API RP 583

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Proposed Changes and/or Wording {attach additional documentation after this point}
Working area for revised API 581 Table 2.D.3.3

Insulation Type	Adjustment Factor, F_{INS}
Unknown/unspecified	1.5
Asbestos	1.5
Cellular glass	0.75
Expanded perlite	1.0
Fiberglass	1.25
Type E fiberglass ²	1.25
Mineral wool	1.5
Mineral wool (water resistant)	1.25
Calcium silicate ²	1.25
Flexible aerogel ²	1.25
Microporous blanket	1.0
Intumescent coating	0.75
Cementitious coating	1.0
NOTE 1 The values in this table are suggested values NOTE 2 * U The use of $F_{INS} = 0.75$ "0.75" is acceptable for any insulation complying with Mass Loss Corrosion Rate (MLCR) less than deionized (DI) water values calculated as per ASTM C1617	

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