Specification for Unbonded Flexible Pipe

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Specification for Unbonded Flexible Pipe

1 Scope

API 17J defines the technical requirements for safe, dimensionally and functionally interchangeable flexible pipes that are designed and manufactured to uniform standards and criteria. Minimum requirements are specified for the design, material selection, manufacture, testing, marking, and packaging of flexible pipes, with reference to existing codes and standards where applicable. See API 17B for guidelines on the use of flexible pipes.

API 17J applies to unbonded flexible pipe assemblies, consisting of segments of flexible pipe body with end fittings attached to both ends. API 17J does not cover flexible pipes of bonded structure. API 17J does not apply to flexible pipe ancillary components. Bonded flexible pipes are covered in API 17K. Ancillary equipment is covered in API 17L1 and API 17L2.

API 17J does not apply to flexible pipes that include nonmetallic tensile and pressure armor wires and structural composite layers.

The applications addressed by API 17J are sweet and sour service production, including export and injection applications. Production products include oil, gas, water, and injection chemicals. API 17J applies to both static and dynamic flexible pipes used as flowlines, risers, and jumpers. API 17J does not apply to flexible pipes for use in choke and kill line applications.

NOTE 1 See API 16C for choke and kill line applications.

NOTE 2 API 17J also applies to unbonded flexible pipes used for carbon capture, transportation, and storage applications.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Specification 6A, *Specification for Wellhead and Tree Equipment*

API Recommended Practice 17B, *Recommended Practice for Flexible Pipe*, 6th Edition

API Specification 17D, *Specification for Subsea Wellhead and Tree Equipment*

API Technical Report 17TR1, *Evaluation Standard for Internal Pressure Sheath Polymers for High Temperature Flexible Pipes*

API Standard 20S, *Additively Manufactured Metallic Components for Use in the Petroleum and Natural Gas Industries*

ANSI [1] /NACE [2] MR0175/ISO [3] 15156, *Petroleum and natural gas industries—Materials for use in H_2S-containing environments in oil and gas production*

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1 American National Standards Institute, 25 West 43rd Street, 4th Floor, New York, NY 10036, www.ansi.org.

2 Formerly NACE International, now known as The Association for Materials Protection and Performance (AMPP), 15835 Park Ten Place, Houston, TX 77084, www.ampp.org/home.

3 International Organization for Standardization, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, www.iso.org.