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## **Addendum 1**

*Table of Contents: “Annex B (informative)” shall be replaced by “Annex B (normative).”*

*Section 1.1: The first two paragraphs shall be replaced by the following:*

This document specifies requirements and gives recommendations for six classes of well cements, and two classes of composite well cements including their chemical and physical requirements, and procedures for physical testing.

This specification is applicable to well cement classes A, B, C, and D, which are the products obtained by grinding Portland cement clinker and, if needed, calcium sulfate ( $\text{CaSO}_4$ ) as an interground additive. Processing additives can be used in the manufacture of cement of these classes. Suitable set-modifying agents can be interground or blended during the manufacture of Class D cement. Annex B describes composite well cement classes K and L, which are the products obtained by intergrinding Portland cement clinker and one or more forms of  $\text{CaSO}_4$  with composite constituents, or by subsequent blending of separately produced Portland cement with separately processed composite constituents. Composite constituents are also specified in Annex B.

*Section 4.1.1.1: The section shall be replaced by the following:*

Well cements shall be specified using the classes A, B, C, D, G, or H and the grades ordinary (O), moderate sulfate-resistant (MSR), and high sulfate-resistant (HSR). Composite well cements shall be specified using classes K and L, consisting of Portland cements and additional composite constituents according to Annex B.

A well cement, or composite well cement, that has been manufactured and supplied in accordance with this specification may be mixed and placed in the field using alternate water ratios and/or additives. It is not intended that manufacturing compliance with this specification be based on such field conditions.

Processing additives, set modifying agents, or chemical additives used to reduce chromium (VI) shall not prevent a well cement from performing its intended functions.

*Section 4.1.1.8: The section shall be replaced by the following:*

See Annex B for the specifications of composite well cements.

*Annex B: The header shall be changed to the following:*

### **Annex B** (normative)

## **Composite Well Cements**