

API Specification 13A 18th Edition, August 2010

Specification for Drilling Fluids – Specifications and Testing

2.6 HIGH-VISCOSITY CMC (CMC-HVT)

Product:	High-viscosity CMC (CMC-HVT)
Grade:	Technical-Grade
Product Description:	API Specification 13A – 15.1.1 Technical-grade high-viscosity carboxymethylcellulose (CMC-HVT) is an alkali metal salt of carboxymethylcellulose. The manufacturer shall maintain documentation of the analysis of the cellulosic raw material used. API Specification 13A – 15.1.2 The product is a free-flowing or granulated powder and is not normally purified of by-products formed in the reaction.
Product Physical Requirements:	API Specification 13A – 15.1.3 CMC-HVT shall be deemed to meet the requirements of this International Standard if a composite sample representing no more than one day's production conforms to the physical specifications of Table 14, represents the product produced and is controlled by the manufacturer.
Technical Requirements: Product Rejection	API Specification 13A – 15.1.4 CMC-HVT shall be free from any starch or starch derivatives. Therefore, a qualitative starch determination shall be performed before proceeding with the CMC-HVT performance testing. If starch is found, no further testing should be performed and the sample shall be rejected.

Table 14 – CMC-HVT physical specifications

Requirement	Standard
Starch or starch derivatives presence	No
Solution properties:	
Viscometer dial reading at 600 r/min	
–in deionized water	Minimum 30
– in 40 g/l salt solution	Minimum 30
– in saturated salt water	Minimum 30
Filtrate volume, millilitres	Maximum 10,0

Note: General Shipping & Marking Requirements are listed in the General Requirements Section of this Purchasing Guideline