

**Dyckerhoff Class L - BASIC**

(Mixture of Portland cement and pozzolan)

Standard notation: API Spec 10A Class L Grade HSR

**Chemical composition:**

	Typical data	Specification API Spec 10A
Loss on ignition (incl. moisture), %	<b>2,2</b>	NR
SiO <sub>2</sub> , %	<b>26</b>	NR
CaO, %	<b>56</b>	NR
Al <sub>2</sub> O <sub>3</sub> , %	<b>6,4</b>	NR
Fe <sub>2</sub> O <sub>3</sub> , %	<b>5,7</b>	NR
$\frac{CaO}{SiO_2}$ mole ratio	<b>2,36</b>	NR

**Physical properties:****45% BWOC mix water, neat**

Specific Surface Area (Blaine), m <sup>2</sup> /kg	<b>3920</b>	NR
Absolute grain density, g/cm <sup>3</sup>	<b>3,08</b>	NR
Slurry density, kg/l	<b>1,87</b>	NR
Other constituents, %	<b>No</b>	must be specified acc. to API Spec 10A, B.2.2
Free Fluid, %	<b>0,7</b>	≤ 5,9
Compressive strength 24h/38°C, psi	<b>2700</b>	≥ 250

**Thickening Time (TT), Neat**

API Sch. 4 (Depth: 6.000ft, BHCT: 45°C)

Consistency after 30 min, Bc	<b>18</b>	≤ 30
Time to 30 Bc, min	<b>72</b>	≥ 30
Time to 50 Bc, min	<b>94</b>	
Thickening time (Time to 100 Bc), min	<b>112</b>	≥ 90

Average results of conformity testing in accordance with API Spec 10A, 25th Ed.(2019) and Addendum 1 issued on November 2019

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