

**Dyckerhoff Lightweight Well Cement N60+****(Mixture of Portland cement and pozzolan)****Standard notation: API Spec 10A Class L Grade HSR****All shipments from 01.01.2021 to 01.04.2021**

Chemical composition:	Typical data	Specification API Spec 10A
Loss on ignition (incl. moisture), %	4,1	NR
SiO ₂ , %	32	NR
CaO, %	44	NR
Al ₂ O ₃ , %	9,8	NR
Fe ₂ O ₃ , %	8,1	NR
$\frac{CaO}{SiO_2}$ mole ratio	1,47	NR

Physical properties:**68% BWOC mix water, neat**

Specific Surface Area (Blaine), m ² /kg	5250	NR
Absolute grain density, g/cm ³	2,90	NR
Slurry density, kg/l	1,64	NR
Other constituents, %	No	must be specified acc. to API Spec 10A, B.2.2
Free Fluid, %	1,5	≤ 5,9
Compressive strength 24h/38°C, psi	510	≥ 250

Thickening Time (TT), Neat

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

Consistency after 30 min, Bc	10	≤ 30
Time to 30 Bc, min	81	≥ 30
Time to 50 Bc, min	90	
Thickening time (Time to 100 Bc), min	100	≥ 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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Date: 29.04.2021
 Dr. Böttcher
 Quality assurance manager
 Well Cement Laboratory



Dyckerhoff Lite C60

(Mixture of Portland cement and pozzolan)

Standard notation: API Spec 10A Class L Grade O

All shipments from **01.01.2021** to **01.04.2021**

Chemical composition:

	Typical data	Specification API Spec 10A
Loss on ignition (incl. moisture), %	4,1	NR
SiO ₂ , %	35	NR
CaO, %	42	NR
Al ₂ O ₃ , %	10,8	NR
Fe ₂ O ₃ , %	3,3	NR
$\frac{CaO}{SiO_2}$ mole ratio	1,27	NR

Physical properties:

73% BWOC mix water, neat

Specific Surface Area (Blaine), m ² /kg	4870	NR
Absolute grain density, g/cm ³	2,85	NR
Slurry density, kg/l	1,60	NR
Other constituents, %	No	must be specified acc. to API Spec 10A, B.2.2
Free Fluid, %	2,4	≤ 5,9
Compressive strength 24h/38°C, psi	1020	≥ 250

Thickening Time (TT), Neat

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

Consistency after 30 min, Bc	11	≤ 30
Time to 30 Bc, min	69	≥ 30
Time to 50 Bc, min	78	
Thickening time (Time to 100 Bc), min	94	≥ 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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