

PZT III-Ob 5-50+4-100/API class L

Standard notation: ПЦТ III-О6-Р 5-50+4-100

All shipments from

01.10.2020 to 01.05.2021

Chemical composition:

	Typical data	Specification ГОСТ 1581-96	Typical data	Specification API Spec 10A
Chlorine ion Cl ⁻ , %	0,01	≤ 0,1	0,01	NR
CaO2/SiO2	0,82	NR	0,82	NR

Physical properties:

Application at low and normal temperatures

Density, g/sm ³	1,50	1.50 ± 0.4	1,50	1,50
Water/cement ratio	0,93	NR	0,89	0,89
Free fluid, %	0,0	≤ 5,0	0,0	≤ 5,9
Flowability, mm	224	≥ 200	n.m.	NR
Flexural strength 48h/22°C, MPa	1,7	≥ 1,0	n.m.	NR
Compressive strength 48h/22°C, MPa	4,7	NR	n.m.	NR
Compressive strength 24h/38°C, MPa	n.m.	NR	10,72	≥ 1,7
API Sch. 4* (Depth: 6.000ft, BHCT: 45°C)				
Maximum Consistency (15 to 30 min stirring period), Bc	n.m.	NR	23	≤ 30
Thickening time (Time to 100 Bc), min	n.m.	NR	150	≥ 90

Application at low and normal temperatures

Density, g/sm ³	1,45	NR	1,45	1,45
Water/cement ratio	1,07	NR	1,04	1,04
Free fluid, %	0,5	NR	0,2	≤ 5,9
Flowability, mm	270	NR	n.m.	NR
Flexural strength 48h/22°C, MPa	1,0	NR	n.m.	NR
Compressive strength 48h/22°C, MPa	2,6	NR	n.m.	NR
Compressive strength 24h/38°C, MPa	n.m.	NR	6,6	≥ 1,7
API Sch. 4* (Depth: 6.000ft, BHCT: 45°C)				
Maximum Consistency (15 to 30 min stirring period), Bc	n.m.	NR	12	≤ 30
Thickening time (Time to 100 Bc), min	n.m.	NR	210	≥ 90

Application at moderate temperatures

Density, g/sm ³	1,40	1.40 ± 0.4	1,40	1,40
Water/cement ratio	1,25	NR	1,21	1,21
Free fluid, %	3,0	≤ 7,5	0,8	≤ 5,9
Flowability, mm	305	≥ 220	n.m.	NR
Time to 30 Bc/75°C, min	132	≥ 90	n.m.	NR
Flexural strength 48h/75°C, MPa	2,7	≥ 2,0	n.m.	NR
Compressive strength 48h/75°C, MPa	8,5	NR	n.m.	NR
Compressive strength 24h/38°C, MPa	n.m.	NR	4,0	≥ 1,7
API Sch. 4* (Depth: 6.000ft, BHCT: 45°C)				
Maximum Consistency (15 to 30 min stirring period), Bc	n.m.	NR	8	≤ 30
Thickening time (Time to 100 Bc), min	n.m.	NR	308	≥ 90

Application at moderate temperatures

Density, g/sm ³	1,35	NR	1,35	1,35
Water/cement ratio	n.m.	NR	1,41	1,42
Free fluid, %	n.m.	NR	1,9	≤ 5,9
Compressive strength 24h/38°C, MPa	n.m.	NR	2,2	≥ 1,7
API Sch. 4* (Depth: 6.000ft, BHCT: 45°C)				
Maximum Consistency (15 to 30 min stirring period), Bc	n.m.	NR	6	≤ 30
Thickening time (Time to 100 Bc), min	n.m.	NR	424	≥ 90

Safety characteristics:

Specific effective activity of natural radionuclides, Bq/kg	81	≤	740	81	NR
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Average results of conformity testing in accordance with ГOCT 310.2-76, ГOCT 5382-91, ГOCT 26798.1-96 and API Spec 10A, 25th Ed.(2019)