CERTIFICADO DE CONTROLE DA QUALIDADE DO CIMENTO

MIZU CIMENTOS

TIPO/CLASSE: CPIII-40 RS ENSACADO

FÁBRICA: **FVI - FÁBRICA DE VITÓRIA - ES**

MÊS/ANO: **AGOSTO/2026**

POLIMIX AGLOMERANTE

ENSAIOS QUÍMICOS				ENSAIOS FÍSICOS E MECÂNICOS									
ENSAIOS	PERDA AO FOGO (PF)	RESIDUO INSOLÚVEL (RI)	TRIÓXIDO DE ENXÓFRE (SO3)	RESISTÊNCIA À COMPRESSÃO			FINURA			EXPANSIB. A QUENTE	TEMPO DE PEGA		CONSIST. NORMAL
				3 DIAS	7 DIAS	28 DIAS	BLAINE	#325	#200		INÍCIO	FIM	
UNIDADE	(%)	(%)	(%)	(MPa)	(MPa)	(MPa)	(cm²/g)	(%)	(%)	(mm)	(min)	(min)	(%)
LIMITE NORMATIVO (ABNT NBR 16697:2018)	≤ 6,5	≤ 5,0	≤ 4,5	≥ 12,0	≥ 23,0	≥ 40,0	–	–	≤ 8,0	≤ 5	≥ 60	≤ 720	–
01/08/2026	0.28	0.67	1.20	17.3	28.1	42.0	4759	1.4	0.2	0.0	235	300	32.1
03/08/2026	1.14	0.60	1.18	18.3	29.7	45.5	4760	1.2	0.2	0.0	220	275	32.1
04/08/2026	1.23	0.69	1.27	18.8	27.9	43.6	4631	1.6	0.2	0.0	220	290	32.1
05/08/2026	1.20	0.52	1.10	18.4	29.6	44.8	4627	1.3	0.2	0.0	220	270	31.9
06/08/2026	0.62	0.53	1.02	18.9	28.4	42.8	4701	1.5	0.2	0.0	225	285	31.8
07/08/2026	0.69	0.57	1.25	18.7	31.2	42.1	4702	1.4	0.2	0.0	215	275	31.9
08/08/2026	1.22	0.51	1.20	17.5	28.4	44.5	4603	1.6	0.2	0.0	215	270	31.9
10/08/2026	0.94	0.71	1.14	16.4	27.7	44.1	4582	1.5	0.3	0.0	220	270	31.8
11/08/2026	1.10	0.49	1.16	17.6	28.9	45.1	4660	1.0	0.2	0.0	225	275	32.0
12/08/2026	1.10	0.60	1.20	16.9	29.7	48.9	4728	1.3	0.3	0.0	235	295	32.0
13/08/2026	1.32	0.49	0.81	15.7	27.5	44.0	4544	1.3	0.1	0.0	215	280	32.3
14/08/2026	0.81	0.68	0.65	16.8	28.1	44.8	4724	1.7	0.1	0.0	240	305	32.1
15/08/2026	0.83	0.57	0.68	16.3	28.1	44.1	4677	1.4	0.3	0.0	225	285	32.0
17/08/2026	1.07	0.51	0.68	17.8	29.0	45.4	4594	1.8	0.4	0.0	235	300	32.0
18/08/2026	0.93	0.65	0.71	16.9	30.3	45.5	4652	1.7	0.2	0.0	225	290	31.9
19/08/2026	0.83	0.46	0.78	16.0	27.9	44.8	4656	1.1	0.2	0.0	225	290	31.0
20/08/2026	1.07	0.49	0.69	19.9	31.9	48.6	4595	1.7	0.3	0.0	225	290	31.7
21/08/2026	1.39	0.51	0.81	17.5	30.2	43.8	4668	1.5	0.3	0.0	225	290	31.8
22/08/2026	1.49	0.41	0.85	19.6	31.1	44.6	4546	1.5	0.3	0.0	210	275	31.7
24/08/2026	1.21	0.53	0.86	16.6	28.5	44.4	4704	1.7	0.3	0.0	210	270	31.8
25/08/2026	1.34	0.65	0.76	19.5	29.1	45.6	4704	1.7	0.3	0.0	210	270	31.9
26/08/2026	1.23	0.45	0.84	19.5	28.5	44.3	4661	1.7	0.2	0.0	210	270	31.9
27/08/2026	1.30	0.40	0.73	19.8	28.2	44.9	4686	1.5	0.2	0.0	225	290	31.9
28/08/2026	0.88	0.57	0.88	20.0	29.8	45.4	4597	1.5	0.3	0.0	200	260	31.8
30/08/2026	1.07	0.57	0.97	18.0	27.5	40.2	4625	1.7	0.3	0.0	210	275	31.5
31/08/2026	1.00	0.56	0.85	16.9	27.9	44.0	4569	1.1	0.2	0.0	225	275	31.3
MÉDIA	1.05	0.55	0.93	17.9	29.0	44.5	4652	1.5	0.2	0.0	221	282	31.9
DESVIO PADRÃO	0.27	0.08	0.21	1.3	1.2	1.8	62	0.2	0.1	0.0	9	12	0.3
MÍNIMO	0.28	0.40	0.65	15.7	27.5	40.2	4544	1.0	0.1	0.0	200	260	31.0
MÁXIMO	1.49	0.71	1.27	20.0	31.9	48.9	4760	1.8	0.4	0.0	240	305	32.3

Kênia Gomes Aires

Responsável Técnico

KÊNIA GOMES AIRES

CRQ: 21.3.00318 - V Região

CERTIFICADO DE CONTROLE DA QUALIDADE DO CIMENTO

MIZU CIMENTOS

TIPO/CLASSE: CPIII-40 RS ENSACADO

FÁBRICA: **FVI - FÁBRICA DE VITÓRIA - ES**

MÊS/ANO: **SETEMBRO/2026**

POLIMIX AGLOMERANTE

ENSAIOS QUÍMICOS				ENSAIOS FÍSICOS E MECÂNICOS									
ENSAIOS	PERDA AO FOGO (PF)	RESIDUO INSOLÚVEL (RI)	TRIÓXIDO DE ENXÓFRE (SO3)	RESISTÊNCIA À COMPRESSÃO			FINURA			EXPANSIB. A QUENTE	TEMPO DE PEGA		CONSIST. NORMAL
				3 DIAS	7 DIAS	28 DIAS	BLAINE	#325	#200		INÍCIO	FIM	
UNIDADE	(%)	(%)	(%)	(MPa)	(MPa)	(MPa)	(cm²/g)	(%)	(%)	(mm)	(min)	(min)	(%)
LIMITE NORMATIVO (ABNT NBR 16697:2018)	≤ 6,5	≤ 5,0	≤ 4,5	≥ 12,0	≥ 23,0	≥ 40,0	–	–	≤ 8,0	≤ 5	≥ 60	≤ 720	–
01/09/2026	0.96	0.65	0.98	16.1	27.0	44.3	4646	1.3	0.2	0.0	225	285	31.2
03/09/2026	0.87	0.56	1.08	16.4	28.0	45.0	4590	1.7	0.3	0.0	215	280	31.4
04/09/2026	1.18	0.49	0.99	17.6	28.1	45.3	4698	1.5	0.3	0.0	225	290	31.5
06/09/2026	0.98	0.79	1.02	17.7	28.2	45.3	4927	1.5	0.3	0.0	220	285	31.5
08/09/2026	1.16	0.56	0.97	16.3	27.8	46.1	4727	1.7	0.4	0.0	210	275	31.5
09/09/2026	0.73	0.70	1.20	16.0	27.7	45.5	4677	1.5	0.2	0.0	215	280	31.5
10/09/2026	1.01	0.70	1.38	17.0	27.3	45.2	4710	1.4	0.2	0.0	235	295	31.6
14/09/2026	1.13	0.50	0.70	17.3	27.8	44.0	4636	2.4	0.9	0.0	230	310	31.4
15/09/2026	1.14	0.63	0.72	17.0	27.7	44.0	4597	1.4	0.3	0.0	210	270	31.7
16/09/2026	0.93	0.66	0.74	16.5	26.6	42.8	4710	1.5	0.3	0.0	225	295	31.7
17/09/2026	1.12	0.56	0.83	15.6	27.9	42.7	4641	1.6	0.2	0.0	230	295	31.7
18/09/2026	1.11	0.52	0.62	17.2	26.8	41.3	4613	1.5	0.2	0.0	235	300	31.6
19/09/2026	1.27	0.58	0.67	17.6	26.9	41.0	4643	1.6	0.2	0.0	225	295	31.4
21/09/2026	1.12	0.60	0.71	15.0	25.4	42.8	4593	1.6	0.3	0.0	225	290	32.0
22/09/2026	1.27	0.51	0.60	16.6	26.4		4629	1.6	0.2	0.0	220	275	31.7
23/09/2026	0.81	0.44	0.88	16.3	26.4	41.5	4895	1.5	0.2	0.0	230	295	31.6
24/09/2026	1.25	0.57	0.85	16.8	26.7	42.1	4808	1.6	0.2	0.0	235	300	31.6
25/09/2026	1.27	0.52	0.92	16.2	26.7	42.1	4725	1.4	0.2	0.0	240	305	32.2
26/09/2026	1.30	0.53	0.59	15.7	24.6		4685	1.3	0.2	0.0	235	300	32.2
27/09/2026	1.49	0.31	0.57	17.4	25.3		4802	1.2	0.2	0.0	250	320	32.1
28/09/2026	1.96	0.49	0.60	17.4	25.8		4828	1.3	0.2	0.0	235	300	32.1
29/09/2026	1.09	0.59	1.03	14.2	25.3		4768	1.4	0.2	0.0	245	310	31.9
30/09/2026	1.40	0.63	0.42	14.1	25.1		4673	1.1	0.2	0.0	230	295	31.6
MÉDIA	1.15	0.57	0.83	16.4	26.8	43.6	4705	1.5	0.3	0.0	228	293	31.7
DESVIO PADRÃO	0.25	0.10	0.23	1.0	1.1	1.7	94	0.3	0.2	0.0	10	12	0.3
MÍNIMO	0.73	0.31	0.42	14.1	24.6	41.0	4590	1.1	0.2	0.0	210	270	31.2
MÁXIMO	1.96	0.79	1.38	17.7	28.2	46.1	4927	2.4	0.9	0.0	250	320	32.2

Kênia Gomes Aires

Responsável Técnico

KÊNIA GOMES AIRES

CRQ: 21.3.00318 - V Região

CERTIFICADO DE CONTROLE DA QUALIDADE DO CIMENTO

MIZU CIMENTOS

TIPO/CLASSE: CPIII-40 RS ENSACADO

FÁBRICA: **FVI - FÁBRICA DE VITÓRIA - ES**

MÊS/ANO: **OUTUBRO/2026**

POLIMIX AGLOMERANTE

ENSAIOS QUÍMICOS				ENSAIOS FÍSICOS E MECÂNICOS									
ENSAIOS	PERDA AO FOGO (PF)	RESIDUO INSOLÚVEL (RI)	TRIÓXIDO DE ENXÓFRE (SO3)	RESISTÊNCIA À COMPRESSÃO			FINURA			EXPANSIB. A QUENTE	TEMPO DE PEGA		CONSIST. NORMAL
				3 DIAS	7 DIAS	28 DIAS	BLAINE	#325	#200		INÍCIO	FIM	
UNIDADE	(%)	(%)	(%)	(MPa)	(MPa)	(MPa)	(cm²/g)	(%)	(%)	(mm)	(min)	(min)	(%)
LIMITE NORMATIVO (ABNT NBR 16697:2018)	≤ 6,5	≤ 5,0	≤ 4,5	≥ 12,0	≥ 23,0	≥ 40,0	–	–	≤ 8,0	≤ 5	≥ 60	≤ 720	–
01/10/2026	1.20	0.47	0.46	14.6	25.1		4583	1.3	0.2	0.0	220	285	31.0
02/10/2026	1.41	0.50	0.39	15.5	24.0		4543	1.4	0.2	0.0	220	280	31.8
03/10/2026	1.47	0.33	0.64	16.9	25.5		4490	2.0	0.4	0.0	220	275	31.7
05/10/2026	1.38	0.55	0.64	15.8	26.1		4515	1.7	0.4	0.0	210	260	31.7
06/10/2026	1.39		0.67	16.3	26.4		4612	2.3	0.4	0.0	205	270	31.7
07/10/2026	1.17		0.72	14.1	26.1		4493	1.6	0.3	0.0	205	270	31.8
08/10/2026	1.18		0.64	15.6	27.2		4527	1.5	0.3	0.0	200	265	31.5
09/10/2026	1.21		0.92	19.0	30.8		4477	1.3	0.2	0.0	210	260	31.4
10/10/2026	1.43		0.70	18.6	29.6		4714	1.5	0.2	0.0	215	270	31.4
13/10/2026	1.39		0.81	17.3	29.8		4609	1.8	0.2	0.0	200	250	31.2
14/10/2026	1.40		0.60	15.6	24.1		4566	1.9	0.2	0.0	220	280	31.2
15/10/2026	1.31		0.71	15.4	26.6		4561	1.6	0.2	0.0	205	270	31.2
16/10/2026	1.32		0.75	15.3	26.7		4551	1.3	0.2	0.0	220	280	31.4
17/10/2026	1.33		0.82	16.8	27.9		4704	1.0	0.2	0.0	215	270	31.8
18/10/2026	1.71		0.79	17.3	28.2		4721	1.3	0.2	0.0	220	285	32.2
19/10/2026	1.31		0.82	15.7	27.3		4586	1.3	0.2	0.0	205	265	32.3
20/10/2026	1.07		1.14	19.0	29.7		4524	2.1	0.2	0.0	220	285	32.3
21/10/2026	1.14		0.95	17.4	28.0		4877	1.7	0.2	0.0	215	280	32.0
22/10/2026	1.18		1.01	17.3	27.5		4602	1.6	0.2	0.0	215	280	32.1
23/10/2026	0.82		1.17	18.3	30.3		4569	1.8	0.2	0.0	190	250	31.9
24/10/2026	0.88		1.12	16.9	27.4		4547	1.6	0.2	0.0	205	270	31.8
26/10/2026	0.94		1.10	16.7	27.2		4608	1.1	0.2	0.0	195	255	31.7
28/10/2026	0.50		1.22				4533	1.6	0.2	0.0	195	260	31.3
29/10/2026	1.13		1.02	16.0			4606	1.2	0.2	0.0	185	245	31.1
MÉDIA	1.22	0.46	0.83	16.6	27.3		4588	1.6	0.2	0.0	209	269	31.7
DESVIO PADRÃO	0.25	0.09	0.23	1.3	1.9		90	0.3	0.1	0.0	11	12	0.4
MÍNIMO	0.50	0.33	0.39	14.1	24.0		4477	1.0	0.2	0.0	185	245	31.0
MÁXIMO	1.71	0.55	1.22	19.0	30.8		4877	2.3	0.4	0.0	220	285	32.3

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Responsável Técnico
KÊNIA GOMES AIRES
CRQ: 21.3.00318 - V Região