

## CERTIFICADO DA QUALIDADE

### ENSAIOS QUÍMICOS E FÍSICOS DO CIMENTO CPV ARI

Mar/2024

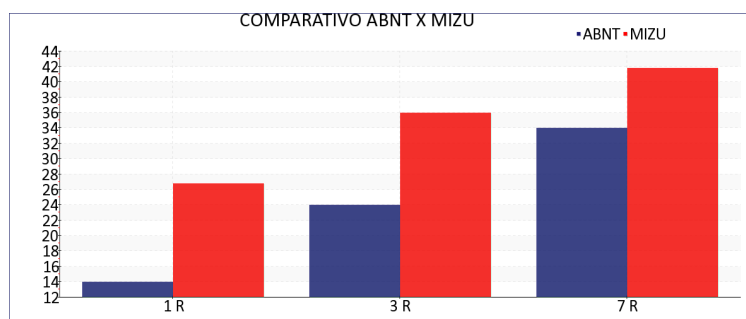
DATA	COMPOSIÇÃO QUÍMICA			RESISTÊNCIA A COMPRESSÃO				FINURA				EXP.	PEGA		CONSIST. NORMAL
	PF	RI	SO3	1 DIA	3 DIAS	7 DIA	28 DIAS	MASSA ESPECÍFICA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	>14,0	>24,0	>34,0		g/cm <sup>3</sup>	cm <sup>2</sup> /g	%	%	mm	>60	<600	
01/03/2024		1.02	4.11	28.05	36.70	42.43	52.15	3.12	5122	0.39	0.05	0.00	97	128	31.44
05/03/2024	2.83	0.93	4.03	29.15	38.73	42.83	50.90	3.12	5086	0.54	0.05	0.00	105	135	31.90
06/03/2024	2.82	0.63	4.31	27.05	34.10	42.23	49.47	3.12	5031	0.63	0.05	0.00	93	119	31.62
08/03/2024	3.01	0.88	4.13	26.60	34.30	40.93		3.12	5020	0.61	0.06	0.00	110	140	31.56
11/03/2024	2.88	0.81	3.85	26.00	36.26	41.86		3.12	4939	0.69	0.06	0.00	127	162	31.46
12/03/2024	3.35	0.94	3.96	24.50	32.90	39.70		3.12	4755	0.51	0.06	0.00	120	156	31.30
13/03/2024	2.78	0.94	3.93	26.40	36.96	45.93		3.12	5057	0.63	0.05	0.00	131	162	31.58
14/03/2024	3.09	1.03	3.93	26.80	37.20	45.50		3.12	4946	0.56	0.06	0.00	118	150	31.39
15/03/2024	2.86	0.80	4.11	27.25	35.93	41.96		3.12	5020	0.74	0.12	0.00	126	151	32.38
17/03/2024	3.17	0.91	4.41	28.40	38.60	41.96		3.12	4983	0.60	0.05	0.00	114	145	31.48
20/03/2024	3.02	0.88	4.07	25.15	37.33	42.00		3.12	4927	0.69	0.06	0.00	94	119	31.30
20/03/2024	3.28	0.88	4.17	28.10	37.80	42.53		3.12	4946	0.55	0.06	0.00	106	137	31.04
21/03/2024	2.88	0.94	4.10	27.65	34.86	41.93		3.12	4889	1.06	0.14	0.00	112	145	31.00
26/03/2024	2.95	1.07	4.11	25.95	34.96	39.63		3.12	4927	0.98	0.11	0.00	107	138	30.80
27/03/2024	3.15	0.93	4.04	26.40	35.03	40.16		3.12	4908	0.50	0.08	0.00	109	140	30.98
28/03/2024	2.70	0.73	4.09	25.30	34.00	38.13		3.12	4908	0.47	0.07	0.00	112	142	31.02

#### Controle Estatístico

	PF	RI	SO3	R1	R3	R7	R28	MASSA ESPECÍFICA	BLAINE	#P325	#200	EXP.	INICIO	FIM	CONSIST.
Média	2.98	0.90	4.08	26.80	35.98	41.86	50.84	3.12	4967	0.63	0.07	0.00	111	142	31.39
Desvio	0.19	0.11	0.14	1.27	1.74	1.98	1.34	0.00	89	0.18	0.03	0.00	11	13	0.39
NBR 16697:2018	<6,5	<3,5	<4,5	>14,0	>24,0	>34,0	-	-	-	-	<6,0	<5,0	>60	<600	-

#### Comparativo ABNT x MIZU

	ABNT	MIZU
R1	14	26.80
R3	24	35.98
R7	34	41.86
R28	--	50.84



*Kênia gomes aires*

Responsável Técnico

Kênia Gomes Aires

CRQ: 21.3.00318

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**Abr/2024**

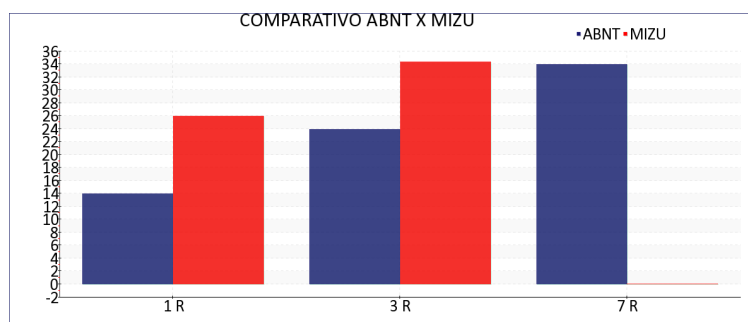
DATA	COMPOSIÇÃO QUÍMICA			RESISTÊNCIA A COMPRESSÃO				FINURA				EXP.	PEGA		CONSIST. NORMAL
	PF	RI	SO3	1 DIA	3 DIAS	7 DIA	28 DIAS	MASSA ESPECÍFICA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	>14,0	>24,0	>34,0		g/cm <sup>3</sup>	cm <sup>2</sup> /g	%	%	mm	>60	<600	
01/04/2024	3.07	0.90	4.03	26.00	34.33			3.12	4908	0.80	0.07	0.00	120	155	31.10
02/04/2024	2.59	0.92	3.98	25.60	33.86			3.12	4889	0.70	0.07	0.00	120	155	31.20
04/04/2024	2.87	0.94	4.02	26.65	35.00			3.12	4851	0.56	0.07	0.00	122	156	31.14
10/04/2024	3.78	0.95	4.52	25.10				3.12	4946	0.64	0.09	0.00	109	134	30.70
11/04/2024	2.64	0.94	4.10	26.45				3.12	4889	0.56	0.08	0.00	116	144	30.96
12/04/2024	2.94	1.52	3.92	26.30				3.12	5057	0.59	0.07	0.00	115	146	30.86
13/04/2024	3.38	0.68	4.07					3.12	4983	0.50	0.07	0.00	104	134	30.88
16/04/2024	2.81	1.00	4.02					3.12	5057	0.45	0.06	0.00	112	145	30.80

**Controle Estatístico**

	PF	RI	SO3	R1	R3	R7	R28	MASSA ESPECÍFICA	BLAINE	#P325	#200	EXP.	INICIO	FIM	CONSIST.
<b>Média</b>	3.01	0.98	4.08	26.02	34.40			3.12	4948	0.60	0.07	0.00	115	146	30.96
<b>Desvio</b>	0.40	0.24	0.18	0.58	0.57			0.00	78	0.11	0.01	0.00	6	9	0.18
<b>NBR 16697:2018</b>	<6,5	<3,5	<4,5	>14,0	>24,0	>34,0	-	-	-	-	<6,0	<5,0	>60	<600	-

**Comparativo ABNT x MIZU**

	ABNT	MIZU
R1	14	26.02
R3	24	34.40
R7	34	
R28	--	



*Kênia gomes aires*

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**Kênia Gomes Aires**  
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