

CERTIFICADO DA QUALIDADE

ENSAIOS QUÍMICOS E FÍSICOS DO CIMENTO CPV ARI

Mar/2024

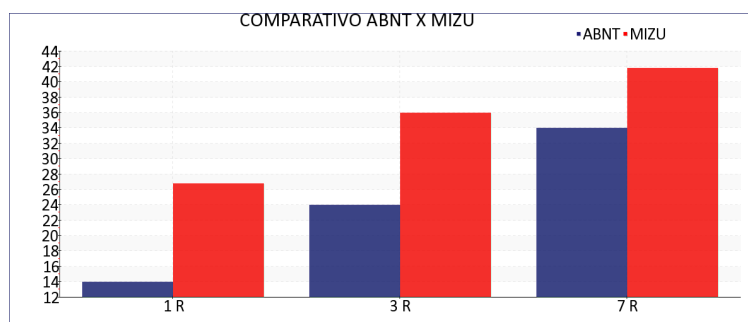
DATA	COMPOSIÇÃO QUÍMICA			RESISTÊNCIA A COMPRESSÃO				FINURA				EXP.	PEGA		CONSIST. NORMAL
	PF	RI	SO3	1 DIA	3 DIAS	7 DIA	28 DIAS	MASSA ESPECÍFICA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	>14,0	>24,0	>34,0		g/cm³	cm²/g	%	%	mm	>60	<600	
01/03/2024		1.02	4.11	28.05	36.70	42.43	52.15	3.12	5122	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	47.35	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	47.60	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	47.27	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	50.70	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	46.42	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	50.45	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	49.15	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	2.03	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	--	49.15



Kênia gomes aires

Responsável Técnico

Kênia Gomes Aires

CRQ: 21.3.00318

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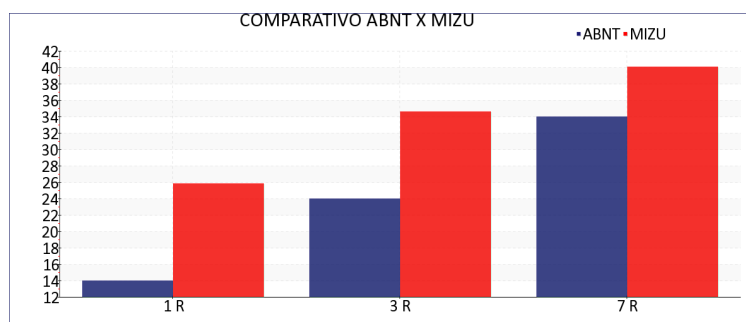
DATA	COMPOSIÇÃO QUÍMICA			RESISTÊNCIA A COMPRESSÃO				FINURA				EXP.	PEGA		CONSIST. NORMAL
	PF	RI	SO3	1 DIA	3 DIAS	7 DIA	28 DIAS	MASSA ESPECÍFICA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	>14,0	>24,0	>34,0		g/cm ³	cm ² /g	%	%	mm	>60	<600	
	%	%	%	MPa	MPa	MPa	MPa						min	min	%
01/04/2024	3.07	0.90	4.03	26.00	34.33	40.06		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	40.03		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	39.26		3.12	4851	0.56	0.07	0.00	122	156	31.14
10/04/2024	3.78	0.95	4.52	25.10	35.76	40.90		3.12	4946	0.64	0.09	0.00	109	134	30.70
11/04/2024	2.64	0.94	4.10	26.45	36.56	42.80		3.12	4889	0.56	0.08	0.00	116	144	30.96
12/04/2024	2.94	1.52	3.92	26.30	35.36	38.86		3.12	5057	0.59	0.07	0.00	115	146	30.86
13/04/2024	3.38	0.68	4.07	24.80	32.86	38.86		3.12	4983	0.50	0.07	0.00	104	134	30.88
16/04/2024	2.81	1.00	4.02	26.15	33.86	38.53		3.12	5057	0.45	0.06	0.00	112	145	30.80
18/04/2024	3.09	0.94	4.03	25.85	34.53	40.50		3.12	5075	0.54	0.08	0.00	134	183	32.98
19/04/2024	3.04	0.91	4.41	26.15	36.06	40.90		3.12	5016	0.47	0.11	0.00	106	137	31.40
22/04/2024	3.09	1.01	4.18	26.05	35.90	41.56		3.12	4994	0.61	0.08	0.00	101	129	31.28
23/04/2024	2.82	1.01	4.00	26.00	34.10	40.27		3.12	4946	0.31	0.04	0.00	111	142	31.30
26/04/2024	3.06	0.83	4.43	25.50	35.13	40.50		3.12	4901	0.42	0.05	0.00	122	153	31.18
29/04/2024	2.80	0.81	4.04	26.50	34.30	39.02		3.12	4965	0.38	0.03	0.00	111	141	31.48
30/04/2024	2.31	0.81	3.77	24.75	32.53			3.12	4857	0.71	0.06	0.00	117	150	31.26

Controle Estatístico

				R1	R3	R7	R28								
Média	2.95	0.94	4.10	25.86	34.68	40.15		3.12	4956	0.55	0.07	0.00	115	147	31.23
Desvio	0.34	0.18	0.20	0.59	1.16	1.19		0.00	74	0.13	0.02	0.00	8	13	0.53
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	25.86
R3	24	34.68
R7	34	40.15
R28	--	



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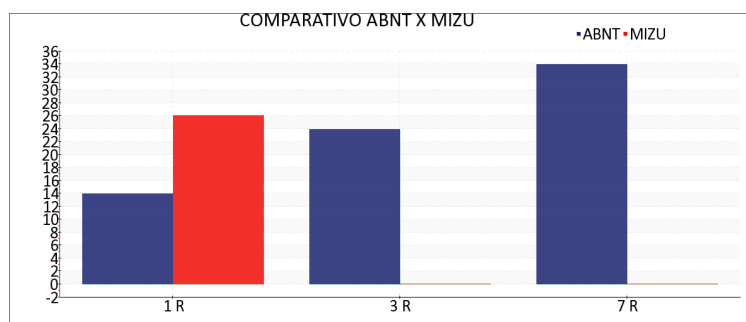
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	PF	RI	SO3	1 DIA	3 DIAS	7 DIA	28 DIAS	MASSA ESPECÍFICA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	>14,0	>24,0	>34,0		g/cm ³	cm ² /g	%	%	mm	>60	<600	
02/05/2024	2.99	0.86	3.91	26.25				3.12	4838	0.60	0.06	0.00	100	130	31.28
06/05/2024	2.75		4.26	25.95				3.12	4820	0.64	0.08	0.00	101	132	31.26

Controle Estatístico

	PF	RI	SO3	R1	R3	R7	R28	MASSA ESPECÍFICA	BLAINE	#P325	#200	EXP.	INICIO	FIM	CONSIST.
Média	2.87	0.86	4.09	26.10				3.12	4829	0.62	0.07	0.00	101	131	31.27
Desvio	0.17		0.25	0.21				0.00	13	0.03	0.01	0.00	1	1	0.01
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	26.10
R3	24	
R7	34	
R28	--	



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