

CERTIFICADO DA QUALIDADE

ENSAIOS QUÍMICOS E FÍSICOS DO CIMENTO CP III 40 RS ENSACADO

Out/2024

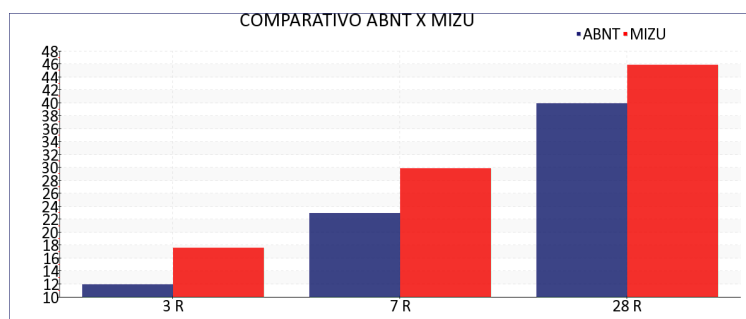
DATA	COMPOSIÇÃO QUÍMICA				RESISTÊNCIA A COMPRESSÃO			FINURA				EXP.	PEGA		CONSIST. NORMAL
	PF	RI	SO3	CaO.	3 DIAS	7 DIA	28 DIAS	MASSA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	Livre	>12,0	>23,0	>40,0	ESPECÍFICA	cm ² /g	%	%	mm	>60	<720	
	%	%	%	%	MPa	MPa	MPa	g/cm ³					min	min	%
01/10/2024	1.62	0.97	0.96	0.94	16.93	29.70		2.95	4777	0.54	0.10	0.00	216	278	33.54
02/10/2024	1.54	0.72	1.01	0.89	16.10	28.46	47.05	2.95	4750	0.90	0.17	0.00	205	262	33.48
03/10/2024	0.80	0.73	1.36	0.94	16.20	28.16	44.35	2.95	4750	0.90	0.17	0.00	205	262	33.48
04/10/2024	1.54	0.73	0.92	0.89	16.86	28.03	47.12	2.95	4694	0.64	0.08	0.00	218	280	32.96
05/10/2024	1.27	0.29	0.97	0.91	16.90	29.46	45.22	2.95	4777	0.73	0.07	0.00	211	269	33.06
07/10/2024	1.24	0.66	1.06	0.89	16.46	28.26	46.85	2.95	4777	0.73	0.06	0.00	202	255	32.88
08/10/2024	1.57	0.61	0.98		16.00	28.36	44.70	2.95	4722	0.65	0.09	0.00	205	260	32.92
09/10/2024	1.60	0.60	1.01		16.03	29.06	46.50	2.95	4722	0.81	0.12	0.00	208	259	33.18
10/10/2024	1.35	0.49	0.91		17.03	29.36	46.50	2.95	4804	0.85	0.11	0.00	209	262	33.00
11/10/2024	1.21	0.49	1.17		19.60	31.13	46.42	2.95	4777	0.59	0.09	0.00	205	263	33.02
12/10/2024	1.24	0.30	1.07		16.66	28.66	44.65	2.95	4750	0.96	0.18	0.00	217	277	33.10
14/10/2024	1.58	0.61	1.07		18.93	30.40		2.95	4777	0.60	0.05	0.00	213	268	33.24
15/10/2024	1.59	0.51	1.09		18.10	32.06		2.95	4777	0.60	0.05	0.00	207	260	33.28
16/10/2024	1.49	0.64	1.20		19.06	31.16		2.95	4804	0.86	0.09	0.00	227	289	33.22
17/10/2024	1.08	0.65	1.22		17.96			2.95	4694	0.79	0.16	0.00	218	273	33.24
18/10/2024	1.48	0.46	1.01		19.80	32.66		2.95	4859	1.02	0.10	0.00	241	307	33.38
19/10/2024	1.26	0.50	1.08		17.06	28.86		2.95	4832	0.85	0.09	0.00	232	282	33.42
21/10/2024	1.19	0.84	1.16		17.60	30.50		2.95	4859	0.65	0.09	0.00	221	283	33.44
22/10/2024	1.15	0.70	1.10		19.33	32.26		2.95	4757	0.94	0.07	0.00	215	275	33.30
23/10/2024	1.43	0.57	1.10		17.33	31.06		2.95	4757	0.67	0.07	0.00	215	270	33.30
24/10/2024	1.37	0.74	1.08		18.33	31.83		2.95	4722	0.91	0.08	0.00	229	286	33.24
25/10/2024	1.63	0.61	0.95		19.53	29.90		2.95	4638	0.83	0.08	0.00	212	264	33.30
26/10/2024	1.30	0.88	1.06		17.33	28.00		2.95	4722	0.87	0.10	0.00	220	278	33.46
28/10/2024	1.41	0.58	0.96		17.56	29.23		2.95	4750	0.82	0.07	0.00	222	277	33.44
29/10/2024	1.17	0.77	0.91		18.46	30.93		2.95	4804	0.89	0.08	0.00	228	284	33.46
30/10/2024	1.21	0.81	1.20		16.73	30.96		2.95	4777	0.84	0.08	0.00	218	271	33.36
31/10/2024	1.11	0.48	1.11		18.10	30.50		2.95	4886	1.18	0.09	0.00	226	281	33.36

Controle Estatístico

					R3	R7	R28								
Média	1.35	0.63	1.06	0.91	17.63	29.96	45.94	2.95	4767	0.80	0.10	0.00	216	273	33.26
Desvio	0.21	0.16	0.11	0.02	1.17	1.42	1.08	0.00	54	0.15	0.04	0.00	10	12	0.19
NBR 16697:2018	<6,5	<5,0	<4,5	-	>12,0	>23,0	>40,0	-	-	-	<8,0	<5,0	>60	<720	-

Comparativo ABNT x MIZU

	ABNT	MIZU
R3	12	17.63
R7	23	29.96
R28	40	45.94



Kênia gomes aires

Responsável Técnico
Kênia Gomes Aires
CRQ: 21.3.00318

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Nov/2024

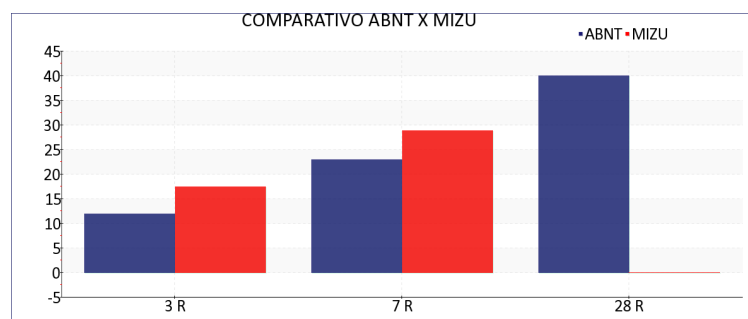
DATA	COMPOSIÇÃO QUÍMICA				RESISTÊNCIA A COMPRESSÃO			FINURA				EXP.	PEGA		CONSIST. NORMAL
	PF	RI	SO3	CaO.	3 DIAS	7 DIA	28 DIAS	MASSA ESPECÍFICA	BLAINE	#P325	#200	QUENTE	INICIO	FIM	
	<6,5	<5,0	<4,5	Livre	>12,0	>23,0	>40,0	g/cm³	cm²/g	%	%	mm	>60	<720	
01/11/2024	1.26	0.69	0.98	0.94	17.33	28.86		2.95	4886	1.08	0.11	0.00	222	281	33.24
04/11/2024	1.21	0.53	1.12	0.86	16.80	28.83		2.95	4804	1.12	0.09	0.00	223	278	33.18
05/11/2024	1.15	0.60	1.16	0.83	17.00			2.95	4804	1.01	0.09		217	270	33.40
06/11/2024	1.79	0.85	1.17	0.99	17.03			2.95	4804	0.79	0.06	0.00	214	265	33.44
07/11/2024	1.00		0.97	0.99	19.23			2.95	4859	0.85	0.12	0.00	210	268	33.40
08/11/2024	1.46		0.98	0.68				2.95	4859	0.82	0.08	0.00	220	275	33.48
09/11/2024	1.40		0.98	0.68				2.95	4939	0.72	0.08	0.00	213	265	33.50
11/11/2024								2.95	4992	1.14	0.14	0.00	222	277	33.52

Controle Estatístico

					R3	R7	R28								
Média	1.32	0.67	1.05	0.85	17.48	28.85		2.95	4868	0.94	0.10	0.00	218	272	33.40
Desvio	0.26	0.14	0.09	0.13	1.00	0.02		0.00	69	0.16	0.03	0.00	5	6	0.12
NBR 16697:2018	<6,5	<5,0	<4,5	-	>12,0	>23,0	>40,0	-	-	-	<8,0	<5,0	>60	<720	-

Comparativo ABNT x MIZU

	ABNT	MIZU
R3	12	17.48
R7	23	28.85
R28	40	



Kênia gomes aires

Responsável Técnico

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