

Storage in pH 3.5 Acetic Acid																
	Reference Test Specimens (70 d under water)								Test Specimens after 70 d in pH 3.5 Acetic Acid							
Cement Type	Drill Core No.	Dimensions			Mass	Density	Breaking Load	Strength	Cement Type	Drill Core No.	Mass after 70 d	Breaking Load	Strength	Change in Mass	Change in Strength	
		d ₁ (mm)	h (mm)	A (mm)	m ₀ (kg)	ρ (kg/dm3)	F ₁ (kN)	β _{D70, water} (N/mm²)			m ₃₅ (kg)	F ₁ (kN)	β _{D35, pH 1.0 sulphuric acid} (N/mm²)	Δm (kg)	Δ βD35 (N/mm²)	
CEM I 42.5 R	A _R	1	80	119.0	5027	1.421	2.375	281.7	CEM I 42.5 R	A _R	10	1.300	220.0	43.76	-0.121	5
		2	80	117.0	5027	1.420	2.414	279.5			11	1.303	182.7	36.34	-0.117	8
		3	80	118.0	5027	1.425	2.402	272.8			12	1.306	178.0	35.41	-0.119	8
		Ave.	80	118.0	5027	1.422	2.397	278.0			Ave.	1.303	193.6	38.5	-0.119	7
	A _N	37	80	130.0	5027	1.529	2.340	229.4		A _N	46	1.078	136.6	27.17	-0.451	9
		38	80	130.0	5027	1.541	2.358	251.3			47	1.063	117.4	23.35	-0.478	13
		39	80	128.0	5027	1.548	2.406	249.6			48	1.009	102.3	20.35	-0.539	14
		Ave.	80	129.3	5027	1.539	2.368	243.4			Ave.	1.050	118.8	23.6	-0.489	12
CEM III A 42.5 R	B _R	13	80	118.0	5027	1.417	2.389	268.1	CEM III A 42.5 R	B _R	22	1.361	162.5	32.32	-0.056	9
		14	80	119.0	5027	1.440	2.407	258.2			23	1.349	153.2	30.47	-0.091	9
		15	80	119.0	5027	1.450	2.424	269.8			24	1.351	155.4	30.91	-0.099	10
		Ave.	80	118.7	5027	1.436	2.407	265.4			Ave.	1.354	157.0	31.2	-0.082	9
	B _N	61	80	127.0	5027	1.578	2.472	221.5		B _N	70	1.288	122.6	24.39	-0.290	10
		62	80	129.0	5027	1.578	2.433	237.6			71	1.266	116.3	23.13	-0.312	12
		63	80	129.0	5027	1.592	2.455	241.8			72	1.256	105.9	21.07	-0.336	14
		Ave.	80	128.3	5027	1.583	2.453	233.6			Ave.	1.270	204.5	22.9	-0.313	12
CEM I 42.5 R HS	C _R	25	80	118.0	5027	1.378	2.323	286.4	CEM I 42.5 R HS	C _R	34	1.210	176.5	35.11	-0.168	9
		26	80	117.0	5027	1.379	2.345	278.5			35	1.223	166.7	33.16	-0.156	9
		27	80	117.0	5027	1.380	2.346	261.5			36	1.236	172.1	34.23	-0.144	8
		Ave.	80	117.3	5027	1.379	2.338	275.5			Ave.	1.223	170.1	34.2	-0.156	8
	C _N	49	80	128.0	5027	1.530	2.378	260.4		C _N	59	1.124	142.2	28.29	-0.406	10
		50	80	130.0	5027	1.535	2.349	255.6			60	1.113	135.8	27.01	-0.422	11
		51	80	130.0	5027	1.544	2.363	251.2			61	1.120	137.9	27.43	-0.424	10
		Ave.	80	129.3	5027	1.536	2.363	255.7			Ave.	1.119	138.6	27.6	-0.417	11
Index: R = RIBELITH																
Index: N = basic																

Pipe concrete drill cores:

storage in pH 3.5 acetic acid

Storage period:

70 days



Test specimen:

CEM I 42.5 R HS normal concrete



Test specimen:

CEM I 42.5 R HS RIBELITH concrete