

Cálculo de madurez del Suelo Cemento MCH para las muestras falladas a compresión

Q = 1711.6

T0= -32.05405

Ts: 30

Edad (horas)	MCH	Incremento de edad (h)	Temp. Prom. °C	Factor T°-t inc °C.T	Factor T°-t acum °C.T	Factor de edad	Edad eq. A 20°C inc,h	Edad eq. A 20°C acum. H
0.0	30.65	0	-	-	-		0	0
0.5	30.8	0.5	30.73	31.39	31	1.01	0.51	0.5
1.0	30.85	0.5	30.83	31.44	63	1.02	0.51	1.0
1.5	31.05	0.5	30.95	31.50	94	1.02	0.51	1.5
2.0	31.2	0.5	31.13	31.59	126	1.02	0.51	2.0
2.5	31.45	0.5	31.33	31.69	158	1.02	0.51	2.5
3.0	31.75	0.5	31.60	31.83	189	1.03	0.52	3.1
3.5	32.15	0.5	31.95	32.00	221	1.04	0.52	3.6
4.0	32.3	0.5	32.23	32.14	254	1.04	0.52	4.1
4.5	32.35	0.5	32.33	32.19	286	1.04	0.52	4.6
5.0	32.5	0.5	32.43	32.24	318	1.05	0.52	5.1
5.5	32.6	0.5	32.55	32.30	350	1.05	0.52	5.7
6.0	32.7	0.5	32.65	32.35	383	1.05	0.53	6.2
6.5	32.7	0.5	32.70	32.38	415	1.05	0.53	6.7
7.0	32.8	0.5	32.75	32.40	447	1.05	0.53	7.2
7.5	32.9	0.5	32.85	32.45	480	1.05	0.53	7.8
8.0	32.9	0.5	32.90	32.48	512	1.05	0.53	8.3
8.5	32.9	0.5	32.90	32.48	545	1.05	0.53	8.8
9.0	32.85	0.5	32.88	32.46	577	1.05	0.53	9.4
9.5	32.7	0.5	32.78	32.41	610	1.05	0.53	9.9
10.0	27.75	0.5	30.23	31.14	641	1.00	0.50	10.4
10.5	27.3	0.5	27.53	29.79	671	0.95	0.48	10.9
11.0	26.85	0.5	27.08	29.56	700	0.95	0.47	11.3
11.5	26.8	0.5	26.83	29.44	730	0.94	0.47	11.8
12.0	26.8	0.5	26.80	29.43	759	0.94	0.47	12.3
12.5	27	0.5	26.90	29.48	789	0.94	0.47	12.7
13.0	27.2	0.5	27.10	29.58	818	0.95	0.47	13.2
13.5	27.35	0.5	27.28	29.66	848	0.95	0.48	13.7
14.0	27.65	0.5	27.50	29.78	878	0.95	0.48	14.2
14.5	27.95	0.5	27.80	29.93	908	0.96	0.48	14.7
15.0	28.1	0.5	28.03	30.04	938	0.96	0.48	15.1
15.5	28.3	0.5	28.20	30.13	968	0.97	0.48	15.6
16.0	28.6	0.5	28.45	30.25	998	0.97	0.49	16.1
16.5	28.75	0.5	28.68	30.36	1,028	0.98	0.49	16.6
17.0	29.25	0.5	29.00	30.53	1,059	0.98	0.49	17.1
17.5	29.6	0.5	29.43	30.74	1,090	0.99	0.49	17.6
18.0	29.75	0.5	29.68	30.86	1,120	0.99	0.50	18.1
18.5	29.9	0.5	29.83	30.94	1,151	1.00	0.50	18.6
19.0	30.05	0.5	29.98	31.01	1,182	1.00	0.50	19.1
19.5	30.15	0.5	30.10	31.08	1,213	1.00	0.50	19.6
20.0	30.3	0.5	30.23	31.14	1,245	1.00	0.50	20.1
20.5	30.4	0.5	30.35	31.20	1,276	1.01	0.50	20.6

Cálculo de madurez del Suelo Cemento MCH para las muestras falladas a compresión

Q = 1711.6

T0= -32.05405

Ts: 30

Edad (horas)	MCH	Incremento de edad (h)	Temp. Prom. °C	Factor T°- t inc °C.T	Factor T°-t acum °C.T	Factor de edad	Edad eq. A 20°C inc,h	Edad eq. A 20°C acum. H
21.0	30.4	0.5	30.40	31.23	1,307	1.01	0.50	21.1
21.5	30.4	0.5	30.40	31.23	1,338	1.01	0.50	21.6
22.0	30.3	0.5	30.35	31.20	1,369	1.01	0.50	22.1
168.0	28.1	146.0	28.00	8767.89	10,137	0.96	140.63	162.7
336.0	28	168.0	27.60	10021.88	20,159	0.96	160.60	323.3
672	26	336.0	27.20	19909.36	40,069	0.95	318.77	642.1

Cálculo de madurez del Suelo Cemento UG para las muestras falladas a compresión

Q = 2227.6

T0= -15.42857

Ts: 30

Edad (horas)	UG	Incremento de edad (h)	Temp. Prom. °C	Factor T°- t inc °C.T	Factor T°-t acum °C.T	Factor de edad	Edad eq. A 20°C inc,h	Edad eq. A 20°C acum. H
0.0	29.75	0	-	-	-		0	0
0.5	29.9	0.5	29.83	22.63	23	1.00	0.50	0.5
1.0	30.15	0.5	30.03	22.73	45	1.00	0.50	1.0
1.5	30.35	0.5	30.25	22.84	68	1.01	0.50	1.5
2.0	30.5	0.5	30.43	22.93	91	1.01	0.51	2.0
2.5	30.75	0.5	30.63	23.03	114	1.02	0.51	2.5
3.0	30.95	0.5	30.85	23.14	137	1.02	0.51	3.0
3.5	31.25	0.5	31.10	23.26	161	1.03	0.51	3.5
4.0	31.4	0.5	31.33	23.38	184	1.03	0.52	4.1
4.5	31.6	0.5	31.50	23.46	207	1.04	0.52	4.6
5.0	31.7	0.5	31.65	23.54	231	1.04	0.52	5.1
5.5	31.8	0.5	31.75	23.59	255	1.04	0.52	5.6
6.0	31.9	0.5	31.85	23.64	278	1.05	0.52	6.1
6.5	31.9	0.5	31.90	23.66	302	1.05	0.52	6.7
7.0	32.1	0.5	32.00	23.71	326	1.05	0.52	7.2
7.5	32.1	0.5	32.10	23.76	349	1.05	0.53	7.7
8.0	32.1	0.5	32.10	23.76	373	1.05	0.53	8.2
8.5	32.2	0.5	32.15	23.79	397	1.05	0.53	8.8
9.0	32.2	0.5	32.20	23.81	421	1.05	0.53	9.3
9.5	32.15	0.5	32.18	23.80	444	1.05	0.53	9.8
10.0	27.8	0.5	29.98	22.70	467	1.00	0.50	10.3
10.5	27.3	0.5	27.55	21.49	489	0.94	0.47	10.8
11.0	27.05	0.5	27.18	21.30	510	0.93	0.47	11.3
11.5	26.9	0.5	26.98	21.20	531	0.93	0.46	11.7
12.0	26.9	0.5	26.90	21.16	552	0.93	0.46	12.2
12.5	26.9	0.5	26.90	21.16	573	0.93	0.46	12.6
13.0	27	0.5	26.95	21.19	595	0.93	0.46	13.1
13.5	27.15	0.5	27.08	21.25	616	0.93	0.47	13.6
14.0	27.35	0.5	27.25	21.34	637	0.93	0.47	14.0
14.5	27.65	0.5	27.50	21.46	659	0.94	0.47	14.5
15.0	27.85	0.5	27.75	21.59	680	0.95	0.47	15.0
15.5	28.15	0.5	28.00	21.71	702	0.95	0.48	15.5
16.0	28.25	0.5	28.20	21.81	724	0.96	0.48	15.9
16.5	28.5	0.5	28.38	21.90	746	0.96	0.48	16.4
17.0	28.9	0.5	28.70	22.06	768	0.97	0.48	16.9
17.5	29.15	0.5	29.03	22.23	790	0.98	0.49	17.4
18.0	29.35	0.5	29.25	22.34	812	0.98	0.49	17.9
18.5	29.6	0.5	29.48	22.45	835	0.99	0.49	18.4
19.0	29.7	0.5	29.65	22.54	857	0.99	0.50	18.9
19.5	29.85	0.5	29.78	22.60	880	0.99	0.50	19.4
20.0	30	0.5	29.93	22.68	903	1.00	0.50	19.9
20.5	30.1	0.5	30.05	22.74	925	1.00	0.50	20.4

Cálculo de madurez del Suelo Cemento UG para las muestras falladas a compresión

Q = 2227.6

T0= -15.42857

Ts: 30

Edad (horas)	UG	Incremento de edad (h)	Temp. Prom. °C	Factor T°- t inc °C.T	Factor T°-t acum °C.T	Factor de edad	Edad eq. A 20°C inc,h	Edad eq. A 20°C acum. H
21.0	30.1	0.5	30.10	22.76	948	1.00	0.50	20.9
21.5	30.1	0.5	30.10	22.76	971	1.00	0.50	21.4
22.0	30	0.5	30.05	22.74	994	1.00	0.50	21.9
168.0	30.8	146.0	28.00	6340.57	7,334	0.95	139.05	160.9
336.0	29	168.0	27.60	7228.80	14,563	0.94	158.43	319.4
672	27.6	336.0	27.20	14323.20	28,886	0.93	313.75	633.1

Cálculo de madurez del Suelo Cemento ART para las muestras falladas a compresión

Q = 3056.2

T0= -10.38073

Ts: 30

Edad (horas)	ART	Incremento de edad (h)	Temp. Prom. °C	Factor T°- t inc °C.T	Factor T°-t acum °C.T	Factor de edad	Edad eq. A 20°C inc,h	Edad eq. A 20°C acum. H
0.0	30.55	0	-	-	-		0	0
0.5	30.75	0.5	30.65	20.52	21	1.02	0.51	0.5
1.0	30.85	0.5	30.80	20.59	41	1.03	0.51	1.0
1.5	31.15	0.5	31.00	20.69	62	1.03	0.52	1.5
2.0	31.35	0.5	31.25	20.82	83	1.04	0.52	2.1
2.5	31.65	0.5	31.50	20.94	104	1.05	0.53	2.6
3.0	32	0.5	31.83	21.10	125	1.06	0.53	3.1
3.5	32.5	0.5	32.25	21.32	146	1.08	0.54	3.7
4.0	32.7	0.5	32.60	21.49	167	1.09	0.54	4.2
4.5	32.8	0.5	32.75	21.57	189	1.09	0.55	4.7
5.0	32.95	0.5	32.88	21.63	211	1.10	0.55	5.3
5.5	33	0.5	32.98	21.68	232	1.10	0.55	5.9
6.0	33.1	0.5	33.05	21.72	254	1.11	0.55	6.4
6.5	33.1	0.5	33.10	21.74	276	1.11	0.55	7.0
7.0	33.2	0.5	33.15	21.77	298	1.11	0.55	7.5
7.5	33.2	0.5	33.20	21.79	319	1.11	0.56	8.1
8.0	33.2	0.5	33.20	21.79	341	1.11	0.56	8.6
8.5	33.2	0.5	33.20	21.79	363	1.11	0.56	9.2
9.0	33.1	0.5	33.15	21.77	385	1.11	0.55	9.7
9.5	32.95	0.5	33.03	21.70	406	1.10	0.55	10.3
10.0	27.8	0.5	30.38	20.38	427	1.01	0.51	10.8
10.5	27.3	0.5	27.55	18.97	446	0.92	0.46	11.3
11.0	26.9	0.5	27.10	18.74	464	0.91	0.45	11.7
11.5	26.9	0.5	26.90	18.64	483	0.90	0.45	12.2
12.0	26.9	0.5	26.90	18.64	502	0.90	0.45	12.6
12.5	27	0.5	26.95	18.67	520	0.90	0.45	13.1
13.0	27.3	0.5	27.15	18.77	539	0.91	0.45	13.5
13.5	27.45	0.5	27.38	18.88	558	0.92	0.46	14.0
14.0	27.65	0.5	27.55	18.97	577	0.92	0.46	14.4
14.5	27.85	0.5	27.75	19.07	596	0.93	0.46	14.9
15.0	28.15	0.5	28.00	19.19	615	0.94	0.47	15.4
15.5	28.35	0.5	28.25	19.32	635	0.94	0.47	15.8
16.0	28.65	0.5	28.50	19.44	654	0.95	0.48	16.3
16.5	28.85	0.5	28.75	19.57	674	0.96	0.48	16.8
17.0	29.35	0.5	29.10	19.74	693	0.97	0.49	17.3
17.5	29.55	0.5	29.45	19.92	713	0.98	0.49	17.8
18.0	29.75	0.5	29.65	20.02	733	0.99	0.49	18.3
18.5	29.8	0.5	29.78	20.08	753	0.99	0.50	18.8
19.0	30	0.5	29.90	20.14	773	1.00	0.50	19.3
19.5	30.15	0.5	30.08	20.23	794	1.00	0.50	19.8
20.0	30.3	0.5	30.23	20.30	814	1.01	0.50	20.3
20.5	30.4	0.5	30.35	20.37	834	1.01	0.51	20.8

Cálculo de madurez del Suelo Cemento ART para las muestras falladas a compresión

Q = 3056.2 T0= -10.38073 Ts: 30

Edad (horas)	ART	Incremento de edad (h)	Temp. Prom. °C	Factor T°- t inc °C.T	Factor T°-t acum °C.T	Factor de edad	Edad eq. A 20°C inc,h	Edad eq. A 20°C acum. H
21.0	30.4	0.5	30.40	20.39	855	1.01	0.51	21.3
21.5	30.4	0.5	30.40	20.39	875	1.01	0.51	21.8
22.0	30.35	0.5	30.38	20.38	896	1.01	0.51	22.3
168.0	28.1	146.0	28.00	5603.59	6,499	0.94	136.54	158.8
336.0	28	168.0	27.60	6380.76	12,880	0.92	155.01	313.8
672	28.1	336.0	27.20	12627.13	25,507	0.91	305.86	619.7