

DIN EN 12390-14:2018-10 (E)

Testing hardened concrete - Part 14: Semi-adiabatic method for the determination of heat released by concrete during its hardening process

Contents		Page
European foreword		3
1	Scope	5
2	Normative references	5
3	Terms, definitions, symbols, units and scripts	5
3.1	Terms and definitions	5
3.2	Symbols, units and scripts	6
4	Principle	7
5	Apparatus	7
5.1	Thermometers	7
5.2	Balance	7
5.3	Temperature monitoring and control system	7
5.4	Semi-adiabatic calorimeter	7
5.5	Control specimen	9
6	Procedure	9
7	Expression of results - Semi-adiabatic heat release	10
8	Report	11
9	Precision	11
Annex A (normative) Calibration of semi-adiabatic calorimeter		12
A.1	Calibration of the semi-adiabatic calorimeter	12
A.1.1	General	12
A.1.2	Determination of the total heat loss coefficient	12
A.1.3	Determination of heat capacity	13
A.2	Alternative method for the calibration of semi-adiabatic calorimeter	14
A.2.1	Calibration procedure	14
A.2.2	Determination of heat capacity and heat loss coefficient	14
Annex B (informative) Experimentation on site		16
Annex C (informative) Specific heat of concrete components		17
Bibliography		18