



HUMBOLDT

H-3042 TempGuard Cylinder Molds

TempGuard (patent pending) cylinder molds are a convenient and easy-to-use insulated concrete cylinder mold, which improves field curing year-round. Because TempGuard keeps the concrete test cylinder at a more consistent and constant temperature, which better matches the project concrete, you get a more realistic representation of the actual properties of your project's concrete.

Field curing is improved because the insulated concrete test cylinder mold minimizes the effects of job site temperature swings have on the concrete test cylinder specimen curing within the mold. This is especially helpful during the coldest winter months and warmest summer months.

Regular plastic cylinders have been known to often cause wildly fluctuating test cylinder temperature profiles. This is not what happens to the actual concrete that is placed on the project. Because TempGuard keeps the concrete test cylinder at a more consistent and constant temperature, which better matches the project concrete, you get a more realistic representation of your concrete's actual properties. Everyone (from the owner, the engineer, the testing lab and the supplier) will have more confidence in the concrete's strength. Consistent cylinder temperatures results in better field curing.

TempGuard cylinder molds help keep concrete temperatures closer to that of the actual project concrete.

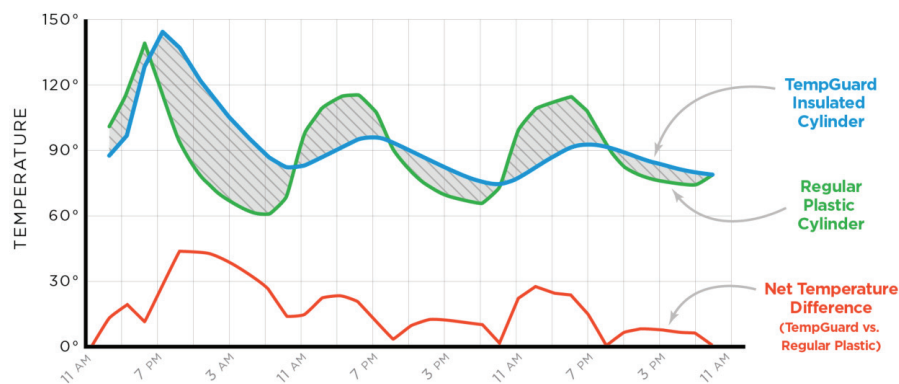
Saves Time & Money

TempGuard insulated cylinders eliminate the need to use and maintain a climate-controlled curing box.



TEMPGUARD & PLASTIC CYLINDERS IN WARM WEATHER

Both Cylinders Placed in Sunlight



Cylinder test data is courtesy of, and used with permission from, Con-Crete Maturity Solutions

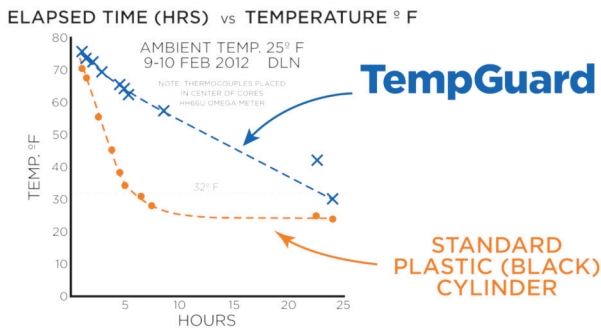
TempGuard helps keep cylinder concrete temperatures closer to that of the actual project concrete. The chart above illustrates TempGuard and regular test cylinder temperatures over 3 days during mildly warm summer weather (mid-70s). Regular cylinder temperatures fluctuate above and below TempGuard by 30°.

H-3042 TempGuard Cylinder Molds

Cold Weather Results:

Test results show that TempGuard's excellent insulation capabilities will keep freshly made concrete test cylinders warmer for a longer time. In fact, freshly made, 73.5°F concrete placed into standard plastic cylinders at an ambient outdoor temperature of 25°F reached 32°F in about 5 hours. The concrete in the TempGuard cylinders took about four times longer to reach 32°F.

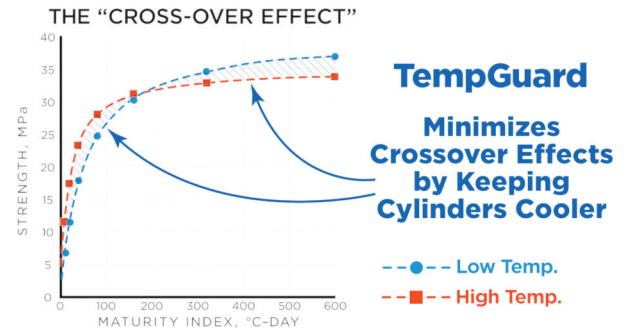
COLD WEATHER RESULTS:



Warm Weather Results

Test results show that TempGuard molds kept test cylinder concrete temperatures more consistent on a mildly warm Summer day vs. a standard test cylinder cured right next to it. The standard cylinder's concrete temperature swung below and above the TempGuard cylinder by 30°F and had higher early age temperatures, which can lead to Cross-over Effects occurring, which have been well documented. Higher early temperatures lead to higher early strengths, but lower long-term strengths.

WARM WEATHER RESULTS:



TempGuard Insulated Cylinder Molds

C31, C39, C192, C470, C496; AASHTO T22, T23, T126, T198, M205

TempGuard (patent pending) cylinder molds are a convenient and easy-to-use insulated concrete cylinder mold. TempGuard cylinders improve field curing year-round and save you time and money. Because TempGuard keeps the concrete test cylinder at a more consistent and constant temperature, which better matches the project concrete, you get a more realistic representation of the project concrete's actual properties and they are easy to strip. Available in cartons of (36) 4" x 8" cylinders with lids.

TempGuard Cylinder Molds 18 lbs (8.2kg) H-3042



Humboldt Mfg. Co.
www.humboldtmfg.com
 875 Tollgate Road
 Elgin, Illinois 60123 U.S.A.

U.S.A. Toll Free: 1.800.544.7220
 Voice: 1.708.468.6300
 Fax: 1.708.456.0137
 email: hmc@humboldtmfg.com