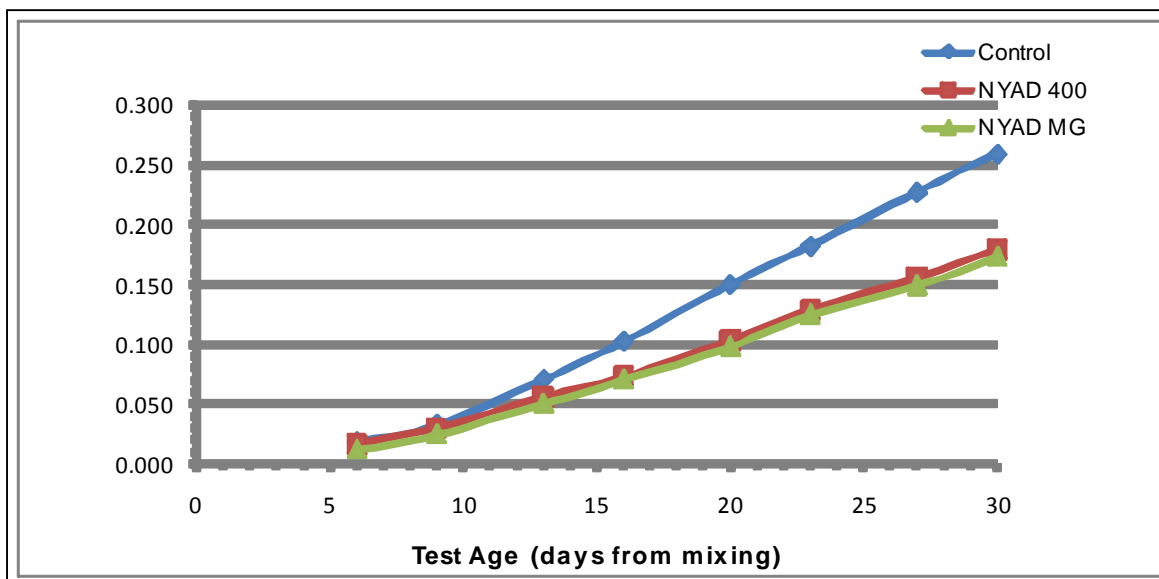


Wollastonite - A 20% by Weight, Super Additive for Cement/Concrete

Alkali Silica Reactivity (ASTM-C1260) Wollastonite Reduces Expansion by 30%



Compression Strength (ASTM C109) NYAD® 400 Wollastonite Improves Compression Strength

Formulation (g)	Control	NYAD 400
Lehigh Portland Cement	500	500
Wollastonite	na	100
Compression Strength (psi) 7 Day Cure—Average of (3) Values % of Control	4420 na	5360 121
Compression Strength (psi) 28 Day Cure—Average of (3) Values % of Control	5500 na	6510 118

For any further information, please contact
info@nycominerals.com



Freeze/Thaw (ASTM C666-Method A)
NYAD® MG (High Aspect Ratio) Wollastonite Provides Excellent Freeze/Thaw Properties

Formulation (g)	Control	NYAD MG
Type 1 Cement	5250	5250
Wollastonite	-	1050
Graded Standard Sand	10500	10500
Water	2210	2630
Slump (in.)	3	2.8
W/C Ratio	42.1	41.7
Mass Loss After 300 Freeze/Thaw Cycles (%)	0.57	0.42
Relative Dynamic Modulus After 300 Freeze/Thaw Cycles (%)	102.7	100.2

Shrinkage (ASTM 596)
NYAD® 400 and NYAD® MG Wollastonite Gives Comparable Shrinkage

Formulation (g)	Control	NYAD 400	NYAD MG
Type 1 Cement	750	750	750
Wollastonite	-	150	150
Graded Standard Sand	1500	1500	1500
Water	295	332	343
Flow (%)	108	114	111
Shrinkage (%)	0.10	0.11	0.11
Flexural Strength (avg, psi)			
7-Day	1360	1420	1180
28-Day	1770	1800	1630
Compressive Strength (avg, psi)			
7-Day	6160	6440	5390
28-Day	7320	7370	7113
Tensile Strength (avg, psi)			
7-Day	529	637	619
28-Day	617	694	705

This data contains general information and describes typical properties only. It is offered for use by persons qualified to determine for themselves the suitability of our products for particular purposes. No guarantee is made or liability assumed, the application of this data and products described herein being at the sole risk of the user. Wollastonite is a naturally occurring mineral, is non-hazardous, and is not regulated by shipping agencies. Based upon toxicological studies, there is no evidence of any significant health risks to workers.

