

# Hobart Stone Dealers Inc.

Mail: P.O. box 508, Conklin N.Y. 13748

Phone: 607 723 0834

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www.hobartstone.com

## Physical and Chemical Properties of Bluestone:

Absorption Test.....	1.57%
Compressive Strength across Strata.....	17,400 lbs. P.S.I.
Compressive Strength with Strata.....	10,200 lbs. P.S.I.
Flexural Strength across Strata .....	2,120 lbs. P.S.I.
Flexural Strength with Strata .....	1,600 lbs. P.S.I.
Absorption Resistance Ha Value.....	49

## Chemical Analysis:

Silica .....	77.60%
Aluminum.....	9.51%
Iron Oxide.....	3.29%
Titanium Oxide.....	.60%
Calcium Oxide.....	2.30%
Magnesium Oxide.....	1.41%
Alkalies.....	1.81%
Sulphur Trioxide.....	.10%
Loss on Ignition .....	3.20%

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## Summary of ASTM C170 Compressive Strength of Bluestone Specimens

Loading Direction to  
Bedding Plane:

Test Condition:

		DRY	WET
Perpendicular	Average =	19,919	13,383 psi
	Std. Dev. =	1,807	967 psi
	Coef. of Variation =	9.1%	7.2%
Parallel	Average =	18,641 psi	11,015 psi
	Std. Dev. =	1,396 psi	1,858 psi
	Coef. of Variation =	7.5%	16.9%

Date Tested: December 18<sup>th</sup>, 1998

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## Summary of ASTM C880 Flexural Strength of Bluestone Specimens

Loading Direction to  
Bedding Plane:

Test Condition:

		DRY	WET
Perpendicular	Average =		2,400 psi
	Std. Dev. =		137 psi
	Coef. of Variation =		5.7%
Parallel	Average =	1,181 psi	766 psi
	Std. Dev. =	36 psi	30 psi
	Coef. of Variation =	3.1%	4.0%

Date Tested: December 18<sup>th</sup>, 1998

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## Summary of ASTM C99 Modulus of Rupture of Bluestone Specimens

Loading Direction to Bedding Plane:	Test Condition:	DRY	WET
Perpendicular	Average =	2,628	2,111 psi
	Std. Dev. =	53 psi	117 psi
	Coef. of Variation =	2.0%	5.5%
Parallel	Average =	1,649 psi	1,202 psi
	Std. Dev. =	131 psi	37 psi
	Coef. of Variation =	7.9%	3.1%

Date Tested: December 17<sup>th</sup>, 1998