

NUMBER OF TESTS PERFORMED: 1

DATE OF LAST TEST: 09/26/2005

*NOTE: Values indicate the percent by weight passing square opening sieves.

Gradation						
SIEVES (mm)	Spec Limits	Spec Median	NUQQ Running Avg.	Standard Deviation about Running Avg.	NUQQ Gradation Target Band	% of tests inside of Target Band
0.375" (9.5)	N/A	N/A	100.0%	0.0%	100%	100.0%
#4 (4.76)	N/A	N/A	100.0%	0.0%	100%	100.0%
#8 (2.38)	N/A	N/A	50.7%	0.0%	51%-51%	100.0%
#16 (1.19)	N/A	N/A	2.4%	0.0%	2%-2%	100.0%
#30 (0.59)	N/A	N/A	1.3%	0.0%	1%-1%	100.0%
#50 (0.297)	N/A	N/A	1.0%	0.0%	1%-1%	100.0%

DISCLAIMER: The gradation and mechanical test results included in this report are for information only. New Ulm Quartzite Quarries, Inc. makes no representation or warranties either expressed or implied with respect to the use of this information. New Ulm Quartzite Quarries, Inc. assumes no liability to anyone for special, collateral, exemplary, indirect, incidental, consequential, or any other kind of damage resulting from the use or application of this information. Customers and other users of our products should exercise their independent judgment when using these products for the purposes they intend.

General Quality			
Quality Parameters	NUQQ Running Avg.	MNDot Spec Limits	Note
L.A.R. Abrasion Loss (A.S.T.M. C131-89):	<35.0%	40% Max.	Toughness
Magnesium Sulfate Loss (A.S.T.M. C88-90 - 5 Cycles):	4.8%	N/A	Soundness
Specific Gravity, (A.S.T.M. C127-88):	2.627	N/A	Bulk SSD
Absorption in Bulk Sample (A.S.T.M. C 126)	<0.35%	N/A	Porosity
Loose Weight:	86.70	N/A	Lbs./Cu. Ft.
Voids in Loose Aggregate:	53.2%	N/A	-
200 Mesh, (75 Micron), Material (A.S.T.M. C117-90):	0.70%	2.0% Max.	Surface Dust
Median Size:	0.140	N/A	Inches
Average Least Dim:	0.102	N/A	Inches
Flakiness Index:	15.0%	30.0% Max.	Particle Shape
Suggested Aggregate Application Rate for Seal Coat:	11.0	N/A	Lbs./Sq. Yd.

Quartzite Aggregates contain no shale, iron oxide, slate, unsound chert or clay balls.