

N.U.Q.Q.

NEW ULM QUARTZITE QUARRIES

2011 PRODUCT TEST SUMMARY

PRODUCT: QUARTZITE ROAD BASE AGGREGATE

GRADATION

NUMBER OF TESTS PERFORMED: 3

DATE OF LAST TEST: 06/20/2011

SIEVES (millimeters in parentheses)	MNDOT 'CLASS- 5' SPEC LIMITS	MNDOT 'CLASS- 2' SPEC LIMITS	N.U.Q.Q. RUNNING AVERAGE	STANDARD DEVIATION ABOUT RUNNING AVERAGE	N.U.Q.Q. GRADATION TARGET BAND	% OF TESTS INSIDE OF TARGET BAND
1.0" (25.0)	100%		100.0%	0.0%	100%	100.0%
0.75" (19.0)	90% - 100%	100%	100.0%	0.0%	100%	100.0%
0.375" (9.5)	50% - 90%	65% - 90%	83.7%	7.6%	76% - 91%	66.7%
#4 (4.75)	35% - 70%	35% - 70%	66.3%	1.2%	65% - 67%	66.7%
#10 (2.0)	20% - 55%	25% - 45%	59.0%	1.0%	58% - 60%	100.0%
#40 (0.425)	10% - 35%	12% - 30%	29.3%	2.5%	27% - 32%	66.7%
#200 (0.075)	3% - 10%	5% - 13%	8.3%	0.2%	8% - 8%	66.7%

NOTE: VALUES INDICATE THE PERCENT BY WEIGHT PASSING SQUARE OPENING SIEVES.

GENERAL QUALITY

QUALITY PARAMETERS	N.U.Q.Q. RUNNING AVERAGE	MNDOT SPEC LIMITS	NOTE
L.A.R. ABRASION LOSS, (A.S.T.M. C131-89):	36.0%	40% MAX.	TOUGHNESS
SPECIFIC GRAVITY, (A.S.T.M. C127-88):	2.62	N/A	SSD

Quartzite road base is 100% crushed.

QUARTZITE AGGREGATES CONTAIN NO SHALE, IRON OXIDE, SLATE, UNSOUND CHERT OR CLAY BALLS.

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SAMPLES AVAILABLE UPON REQUEST