

Product Specification: Northern Quarries 20mm Class 1 Crushed Rock

PRODUCT CODE: 073-001-t

SOURCE ROCK TYPE: Basalt

CUSTOMER: Standard Product

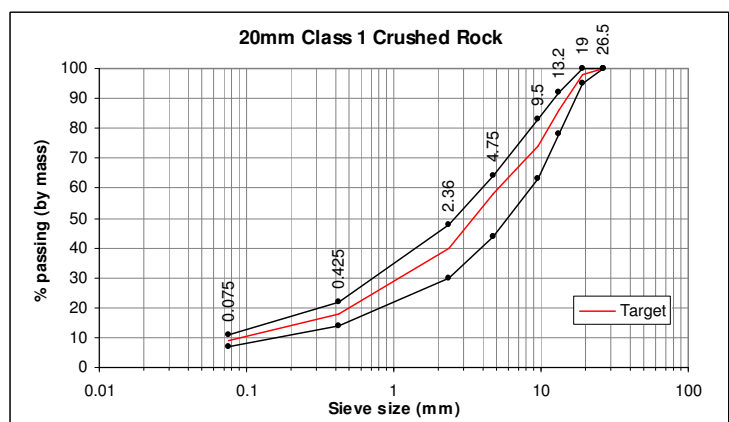
REFERENCE: VicRoads Standard Specifications for Road works and Bridgeworks, Sections 812 & 801

Relevant Tests Carried Out On Source Rock				
Test	Method	Frequency	Requirements	Reference
Los Angeles (LA) Value	AS1141.23	VicRoads Issue	≤30	VicRoads 801.033
Preparation of Reference Specimens	AS1141.30 Appendix A	VicRoads Issue	See below for sound and marginal classifications	VicRoads 801.04
Accelerated Soundness by Reflux	AS1141.29	VicRoads Issue	Sound ≥94% Marginal 90-93%	VicRoads 801.031 & 801.032
Secondary Mineral Content	AS1141.26	VicRoads Issue	Sound ≤25% Marginal 26-30%	VicRoads 801.031 & 801.032

Tests Carried Out For Product Quality Control Purposes
Sampling Method: AS1141.3.1

Test	Method	Frequency	Requirements	Reference
Unit Mass Density	AS1141.4	1 per 3 Years	N/A - For reference purposes only	N/A
Maximum Dry Density / Optimum Moisture Content	AS1289.5.2	1 per Year	N/A - For reference purposes only	N/A
Plastic Index (PI)	AS1289.3.3.1	1 per 2,500t	2-6	VicRoads 812.051
Liquid Limit (as part of PI test)	AS1289.3.1.1	1 per 2,500t	≤30%	VicRoads 812.051
Flakiness Index (FI)	AS1141.15 / RC302.11	1 per 10,000t	≤35%	VicRoads 812.051
Permeability (Perm)	AS1289.6.7.1	1 per 10,000t	≤5 x 10 ⁻⁸ m/sec	VicRoads 812.051
Unsound stone count by visual assessment	AS1141.30 / RC372.01	1 per 500t	Unsound ≤5% Marginal + Unsound ≤10%	VicRoads 812.052
Moisture Content (MC) – Dry Product	AS1289.2.1.6 (Hotplate method)	1 per 500t	≤4%	VicRoads 812.10.a
MC – Wet Mixed (WM) or Cement Treated (CT) Product	AS1289.2.1.6 (Hotplate method)	1 per production day then 1 per 500t	-1.0% to +0.5% of MC nominated by customer	VicRoads 812.10.b
Cement Content – CT Product	AS5101.3.3	1 per production day then 1 per 250t [†]	±0.3% of specified cement content	VicRoads 815.10.a
Unconfined Compression Strength (UCS) – CT Product	AS5101.4 & AS5104.4	On request [‡]	As per customer requirements	VicRoads 815.101
Particle size distribution (Grading)	AS1141.11 (washed)	1 per 500t	See table and graph below	VicRoads 812.072

Sieve Size AS (mm)	Limits of Grading		Target Grading (% Passing)
	% Passing	% Retained	
26.5	100	0	100
19.0	95 – 100	0 – 5	98
13.2	78 – 92	7 – 18	86
9.50	63 – 83	10 – 16	74
6.7	-	-	66
4.75	44 – 64	14 – 24	58
2.36	30 – 48	10 – 20	40
0.425	14 – 22	14 – 28	18
0.075	7 – 11	6 – 13	9



[†] Cement content tests will not be carried out for orders less than 100 tonnes unless specified by the customer

[‡] Charges may apply

Date issued: 21 May 2010
Issue number: 7
Authorised by: Tom Kerr
Date printed: 6 Dec 2010

Previous issue date: 19 May 2009

Date of first issue: 13 May 2002
Max review interval: 5 years
Manual index location: 19.i