

**TNZ M/4: 2006 AP20
TEST REPORT**



Project : **Quality Assurance**
 Location : **Production Stock**
 Client : **Road Metals Company Limited**
 Contractor : **Various**
 Sampled by : **Paul Campbell (Road Metals)**
 Date sampled : **9 October 2025**
 Sampling method : **NZS4407:2015 2.4.7**
 Sample description : **NZTA M/4 AP20**
 Sample condition : **Damp as received**
 Source : **Yaldhurst Quarry**

Project No : **6-JRMCO.16/6LC**
 Lab Ref No : **CH13221**
 Client Ref No : **910-LR-381**

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
53.0	-	-
37.5	-	-
26.5	-	-
19.0	100	100 - 100
9.5	67	55 - 75
4.75	41	33 - 55
2.36	28	22 - 42
1.18	21	14 - 31
0.600	18	8 - 23
0.300	13	5 - 16
0.150	8	0 - 12
0.075	6	0 - 8

% passing the finest sieve is obtained by difference

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
37.5 - 9.50	-	-
19.0 - 4.75	59	-
9.5 - 2.36	39	20 - 46
4.75 - 1.18	20	9 - 34
2.36 - 0.600	11	6 - 26
1.18 - 0.300	8	3 - 21
0.600 - 0.150	9	2 - 17

Plasticity Index	
Sample PI	Not Tested
Specification	<=5

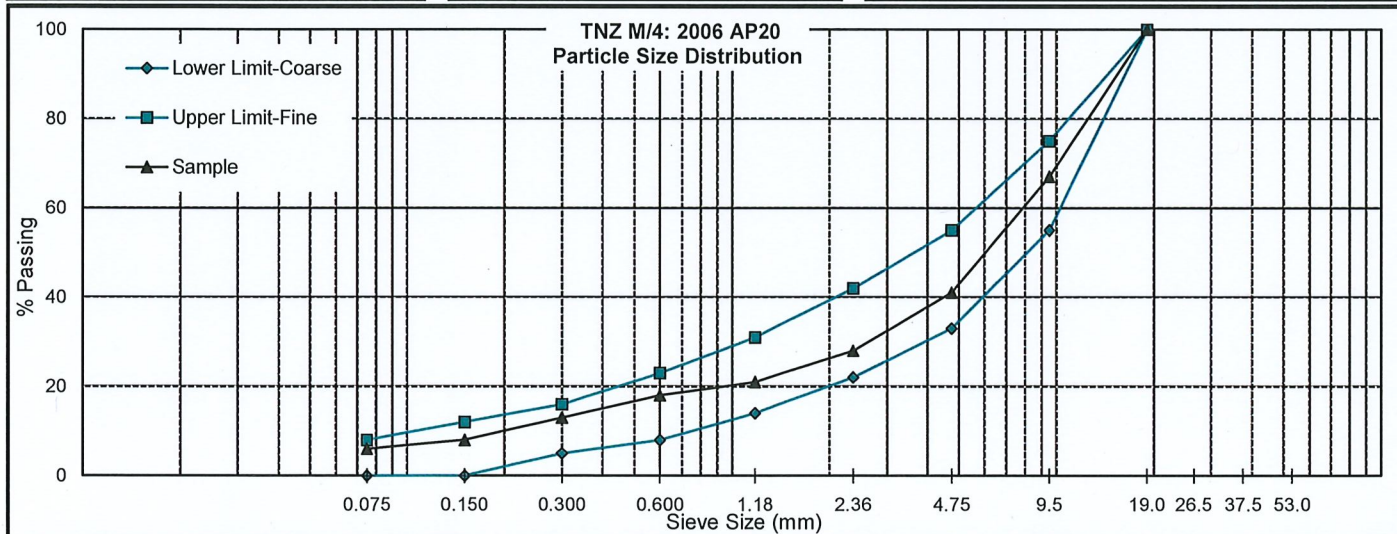
Crushing Resistance		
% Fines @ Spec. Load	Not Tested	%
Specification	-	%
Crushing Resistance	-	kN
Nom Aggregate Size	-	mm
Specified Load	130	kN

Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
37.5 - 19.0	Not Tested	70
19.0 - 9.5	78	70
9.5 - 4.75	84	70

Flakiness Index	
Sample FI	Not Tested
Specification	-

Clay Index	
Sample CI	Not Tested
Specification	<=3
Sample from	Nat Fines / Rock Powder

Sand Equivalent	
Sample SE	Not Tested
Specified	>=40
Sample Preparation	Washed, Mechanical Shaking



Test Methods	Notes
Particle Size Distribution - NZS 4407 : 2015 : Test 3.8.1 Broken faces- NZS 4407: 2015: Test 3.14	All information supplied by Client Sampling is covered by IANZ Accreditation This report may only be reproduced in full

Date tested : 10 October 2025
 Date reported : 10 October 2025

Approved Signatory :
 Designation : **Laboratory Manager**
 Date : 10 October 2025

PF-LAB-040 (23/09/2025)



All tests reported herein
 have been performed in
 accordance with the
 laboratory's scope of
 accreditation

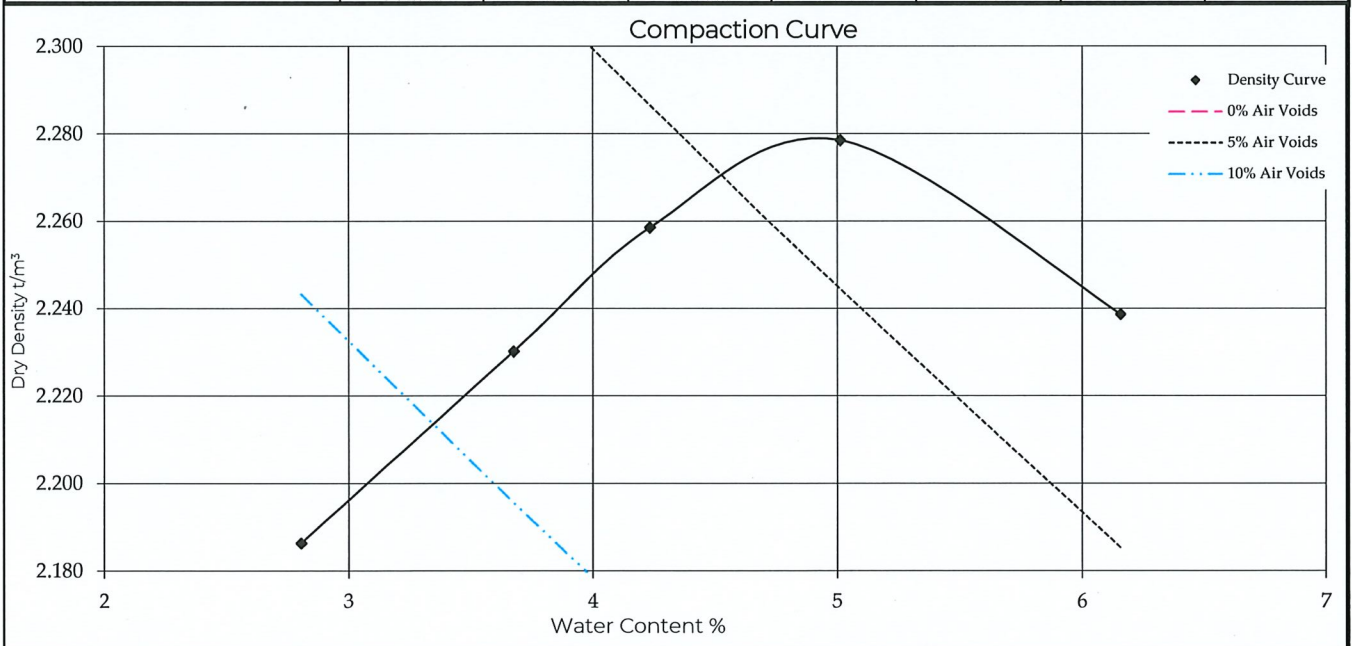
DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION



Project : Quality Assurance
Location : Production Stock
Client : Road Metals Company Limited
Contractor : Various
Sampled by : Paul Campbell (Road Metals)
Date sampled : 9 October 2025
Sampling method : NZS 4407: 2015 (2.4.7)
Sample description : NZTA M/4 AP20
Sample condition : Damp as received
Solid density : 2.68 t/m³ (Assumed)
Source : Yaldhurst Quarry

Project No : 6-JRMCO.16/6LC
Lab Ref No : CH13221
Client Ref No : 910-LR-381


Test Results								
Maximum dry density		2.28	t/m³		Natural water content		3.7	%
Optimum water content		5.0	%		Fraction tested		Whole	
Sample ID		-1%	NAT	+1%	+2%	+3%		
Bulk density	t/m³	2.248	2.312	2.354	2.393	2.377		
Water content	%	2.8	3.7	4.2	5.0	6.2		
Dry density	t/m³	2.186	2.230	2.259	2.279	2.239		
Sample condition		Moist Hard	Wet Firm	Wet Firm	Wet Firm	Saturated Firm		



Test Methods	Notes
Compaction NZS 4402:1986: Test 4.1.3	All information supplied by Client

Date tested : 9 October 2025
Date reported : 21 October 2025

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Approved Signatory 
Designation : Laboratory Manager
Date : 21 October 2025



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have been performed in
accordance with the
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accreditation