

**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 : **18 March 2026**
 Sampling method : **NZS4407:2015 2.4.6.3.2**
 Sample description : **NZTA M/4 AP20**
 Sample condition : **Damp as received**
 Source : **Yaldhurst Quarry**

Project No : **6-JRMCO.16/6LC**
 Lab Ref No : **CH13787**
 Client Ref No : **910-LR-607**

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
53.0	-	-
37.5	-	-
26.5	-	-
19.0	100	100 - 100
9.5	58	55 - 75
4.75	34	33 - 55
2.36	24	22 - 42
1.18	19	14 - 31
0.600	16	8 - 23
0.300	12	5 - 16
0.150	6	0 - 12
0.075	4	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	66	-
9.5 - 2.36	34	20 - 46
4.75 - 1.18	15	9 - 34
2.36 - 0.600	9	6 - 26
1.18 - 0.300	7	3 - 21
0.600 - 0.150	9	2 - 17

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

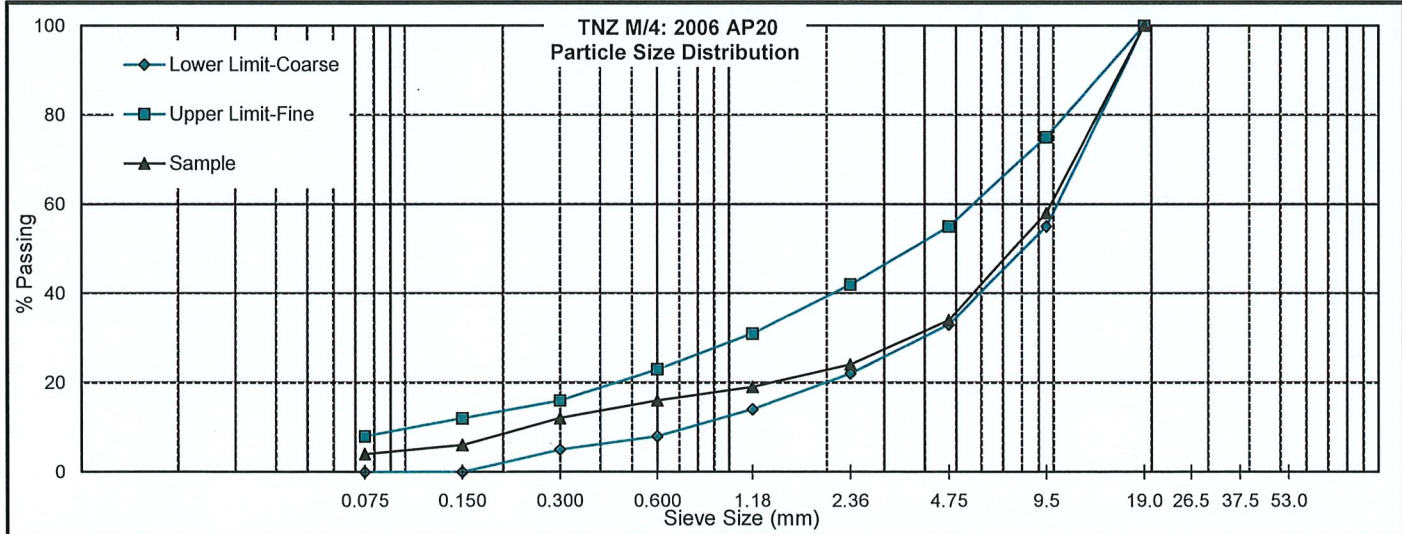
Plasticity Index	
Sample PI	Not Tested
Specification	<=5

Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
37.5 - 19.0	Not Tested	70
19.0 - 9.5	70	70
9.5 - 4.75	70	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 not covered by IANZ Accreditation. Results apply only to sample tested. This report may only be reproduced in full

Date tested : 23 March 2026
 Date reported : 25 March 2026
 Approved Signatory : *[Signature]*
 Designation : **Laboratory Manager**
 Date : 25 March 2026



Test results indicated as not accredited are outside the scope of the laboratory's accreditation

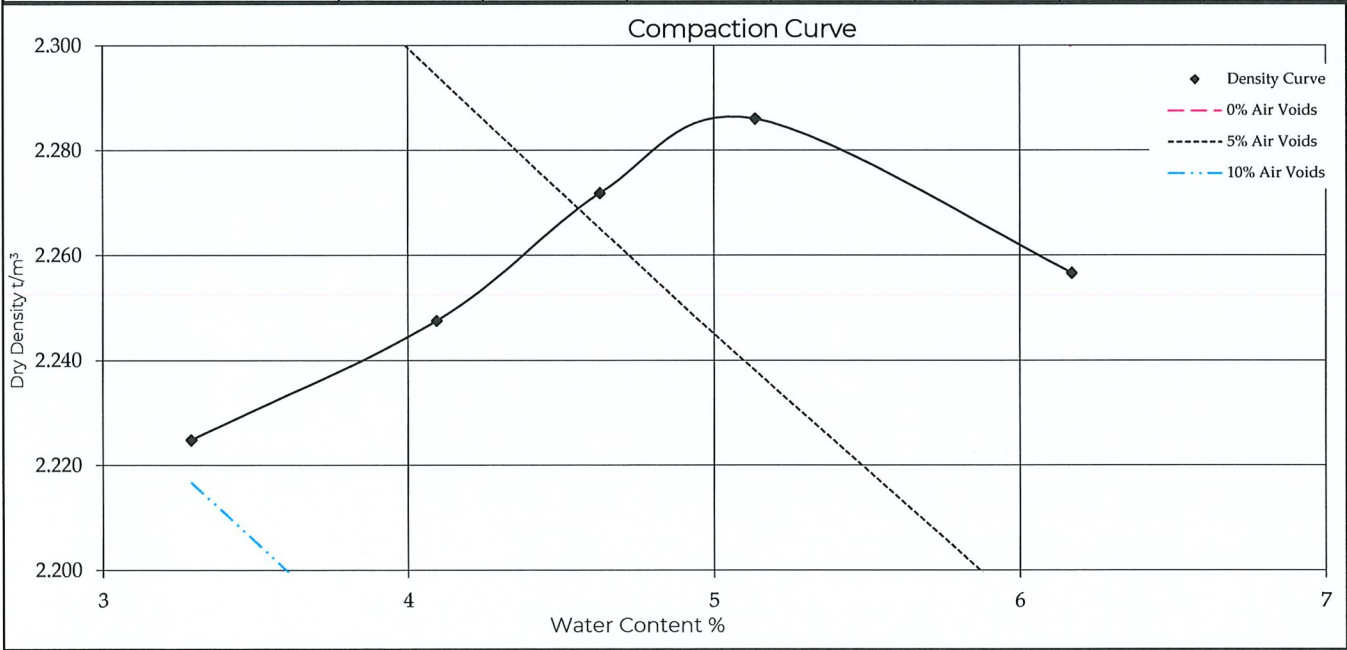
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Paul Campbell (Road Metals)
 Date sampled : 18 March 2026
 Sampling method : NZS 4407: 2015 (2.4.6.3.2)
 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 :	CH13787
Client Ref No :	910-LR-607

Test Results							
Maximum dry density	2.28	t/m ³	Natural water content	4.1	%		
Optimum water content	5.0	%	Fraction tested	Whole			
Sample ID	-1%	NAT	+1%	+2%	+3%		
Bulk density t/m ³	2.298	2.340	2.377	2.403	2.396		
Water content %	3.3	4.1	4.6	5.1	6.2		
Dry density t/m ³	2.225	2.248	2.272	2.286	2.257		
Sample condition	Wet	Wet	Wet	Wet	Saturated		
	Hard	Hard	Firm	Firm	Firm		



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

Date tested : 23 March 2026
 Date reported : 25 March 2026

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Approved Signatory 
 Designation : Laboratory Manager
 Date : 25 March 2026



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