

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 : 16 May 2025
Sampling method : NZS 4407: 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 : CH12743
Client Ref No : RM45436

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
63.0	-	100 - 100
37.5	-	100 - 100
19.0	100	100 - 100
9.5	68	55 - 75
4.75	40	33 - 55
2.36	30	22 - 42
1.18	24	14 - 31
0.600	21	8 - 23
0.300	16	5 - 16
0.150	10	0 - 12
0.075	7	0 - 8

% passing the finest sieve is obtained by difference

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
9.5 - 2.36	38	20 - 46
4.75 - 1.18	16	9 - 34
2.36 - 0.600	9	6 - 26
1.18 - 0.300	8	3 - 21
0.600 - 0.150	11	2 - 17

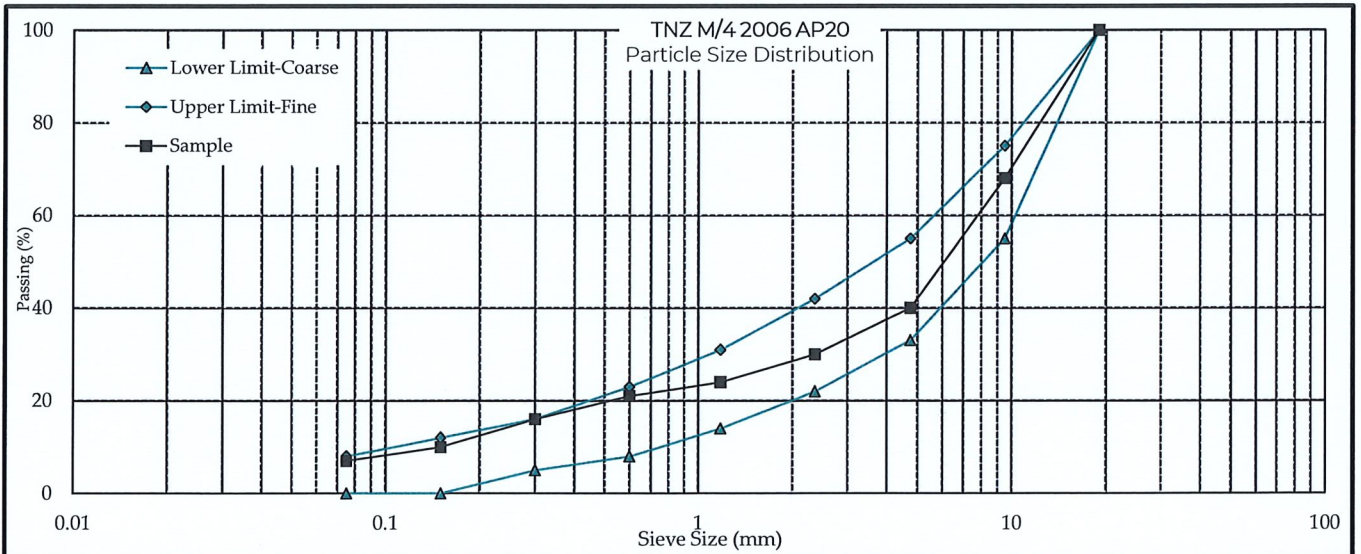
Crushing Resistance		
% Fines @ Spec. Load	-	%
Specification	-	%
Crushing Resistance	-	kN
Nom Aggregate Size	-	mm
Specified Load	-	kN

Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
19.0 - 9.5	79	70
9.5 - 4.75	73	70

Plasticity Index	
Sample PI	Non Plastic
Specification	<= 5

Clay Index	
Sample CI	0.5
Specification	<= 3

Sand Equivalent (Washed, Mechanical Shaking)	
Sample SE	23
Specified	>= 40



Test Methods			
Plasticity Index	NZS 4407 : 2015 : Test 3.4	Broken Faces Content of Aggregate	NZS 4407 : 2015 : Test 3.14
Sand Equivalent	NZS 4407 : 2015 : Test 3.6	Clay Index	NZS 4407 : 2015 : Test 3.5
Particle Size Distribution	NZS 4407 : 2015 : Test 3.8.1		

Date tested : 27 May 2025
Date reported : 9 June 2025

Sampling is covered by IANZ Accreditation
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All information supplied by Client

Approved Signatory 
Designation : Laboratory Manager
Date : 9 June 2025



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

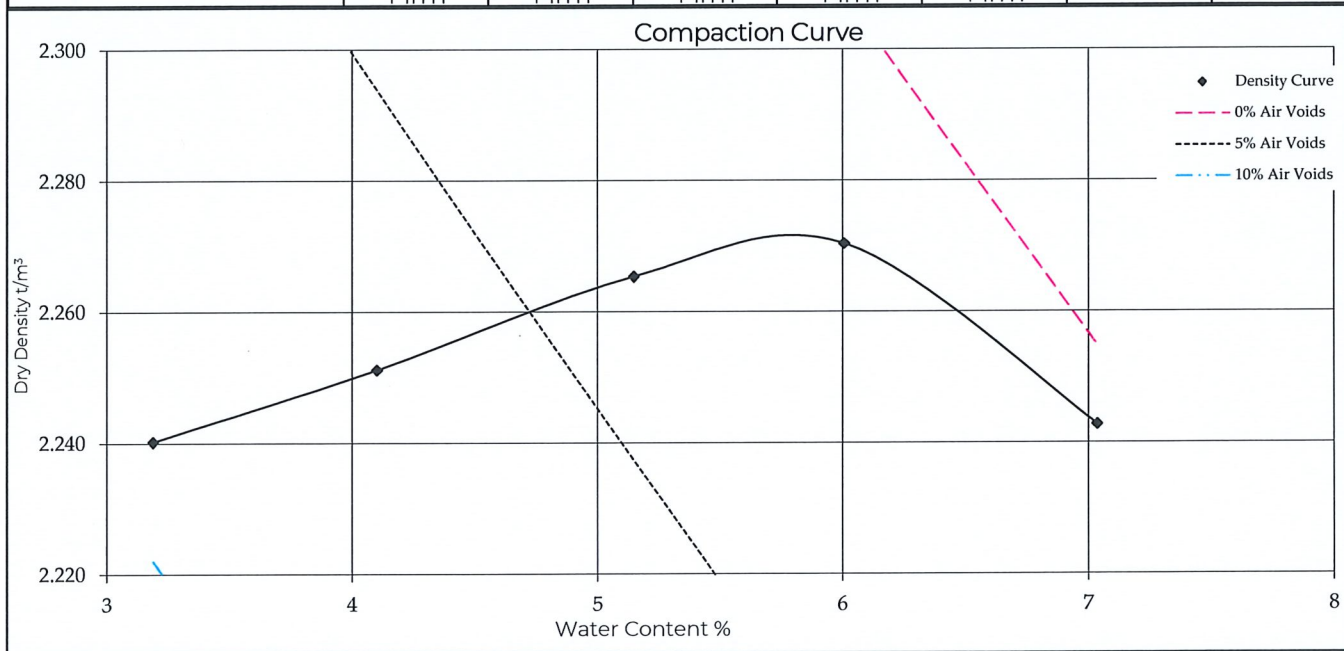
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Paul Campbell (Road Metals)
 Date sampled : 16 May 2025
 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 : CH12743
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Test Results							
Maximum dry density	2.28	t/m ³	Natural water content		5.1	%	
Optimum water content	6.0	%	Fraction tested		Whole		
Sample ID	-2%	-1%	Nat	+1%	+2%		
Bulk density t/m ³	2.312	2.343	2.382	2.407	2.401		
Water content %	3.2	4.1	5.1	6.0	7.0		
Dry density t/m ³	2.240	2.251	2.265	2.270	2.243		
Sample condition	Moist Firm	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 : 29 May 2025
 Date reported : 9 June 2025

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Approved Signatory

Designation : Laboratory Manager
 Date : 9 June 2025



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