

TNZ M/4 : 2006 AP40
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 AP40
Sample condition : Damp as received
Source : Yaldhurst Quarry

Project No : 6-JRMCO.16/6LC
Lab Ref No : CH12744
Client Ref No : RM45436

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
63.0	-	100 - 100
37.5	100	100 - 100
19.0	81	66 - 81
9.5	57	43 - 57
4.75	35	28 - 43
2.36	25	19 - 33
1.18	18	12 - 25
0.600	14	7 - 19
0.300	10	3 - 14
0.150	6	0 - 10
0.075	3	0 - 7

% passing the finest sieve is obtained by difference

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
19.0 - 4.75	46	28 - 48
9.5 - 2.36	32	14 - 34
4.75 - 1.18	17	7 - 27
2.36 - 0.600	11	6 - 22
1.18 - 0.300	8	5 - 19
0.600 - 0.150	8	2 - 14

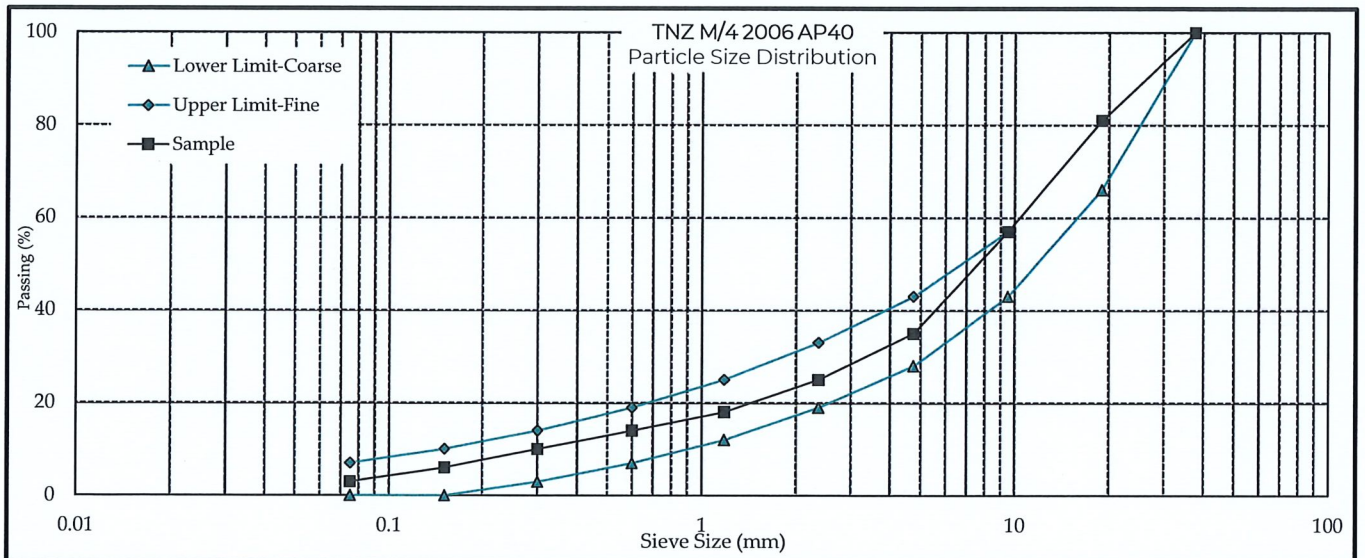
Crushing Resistance		
% Fines @ Spec. Load	-	%
Specification	-	%
Crushing Resistance	-	kN
Nom Aggregate Size	-	mm
Specified Load	-	kN

Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
37.5 - 19.0	83	70
19.0 - 9.5	72	70
9.5 - 4.75	87	70

Plasticity Index	
Sample PI	Non Plastic
Specification	<= 5

Clay Index	
Sample CI	0.5
Specification	<= 3

Sand Equivalent (Brushed, Hand Shaking)	
Sample SE	22
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 : 4 June 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

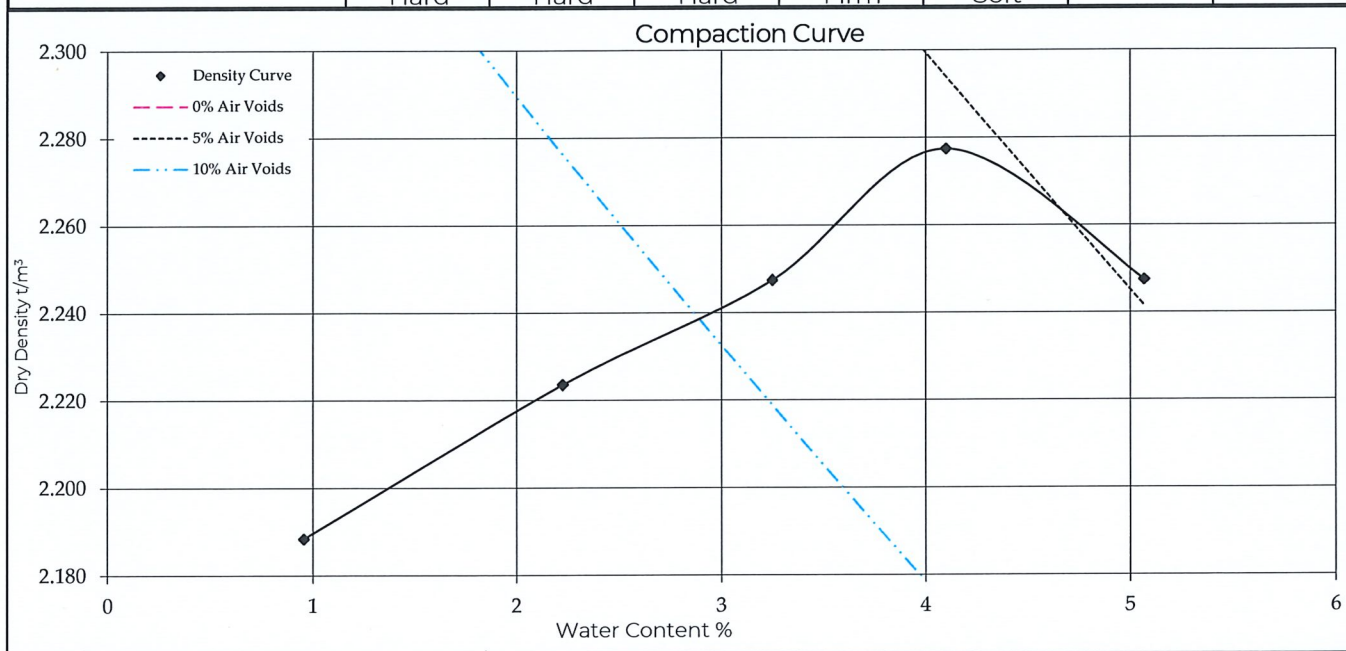
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



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 AP40
 Sample condition : Damp as received
 Solid density : 2.68 t/m³ (Assumed)
 Source : Yaldhurst Quarry

Project No : 6-JRMCO.16/6LC
 Lab Ref No : CH12744
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Test Results							
Maximum dry density	2.28	t/m³	Natural water content			3.2	%
Optimum water content	4.0	%	Fraction tested			Whole	
Sample ID	-2%	-1%	Nat	+1%	+2%		
Bulk density t/m³	2.209	2.273	2.320	2.371	2.361		
Water content %	1.0	2.2	3.2	4.1	5.1		
Dry density t/m³	2.188	2.224	2.247	2.277	2.248		
Sample condition	Moist Hard	Moist Hard	Moist Hard	Wet Firm	Saturated Soft		



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

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

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Approved Signatory

Designation : Laboratory Manager
 Date : 9 June 2025



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