

TNZ M/4 : 2006 AP40
TEST REPORT



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Steve Gilbert (Road Metals)
 Date sampled : 14 February 2025
 Sampling method : NZS 4407: 2015 (2.4.6.2.3)
 Sample description : NZTA M/4 AP40
 Sample condition : Damp as received
 Source : Rolleston Quarry

Project No :	6-JRMCO.16/6LC
Lab Ref No :	CH12450
Client Ref No :	915-168

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	54	43 - 57
4.75	42	28 - 43
2.36	30	19 - 33
1.18	22	12 - 25
0.600	17	7 - 19
0.300	12	3 - 14
0.150	8	0 - 10
0.075	5	0 - 7

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
19.0 - 4.75	39	28 - 48
9.5 - 2.36	24	14 - 34
4.75 - 1.18	20	7 - 27
2.36 - 0.600	13	6 - 22
1.18 - 0.300	10	5 - 19
0.600 - 0.150	9	2 - 14

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

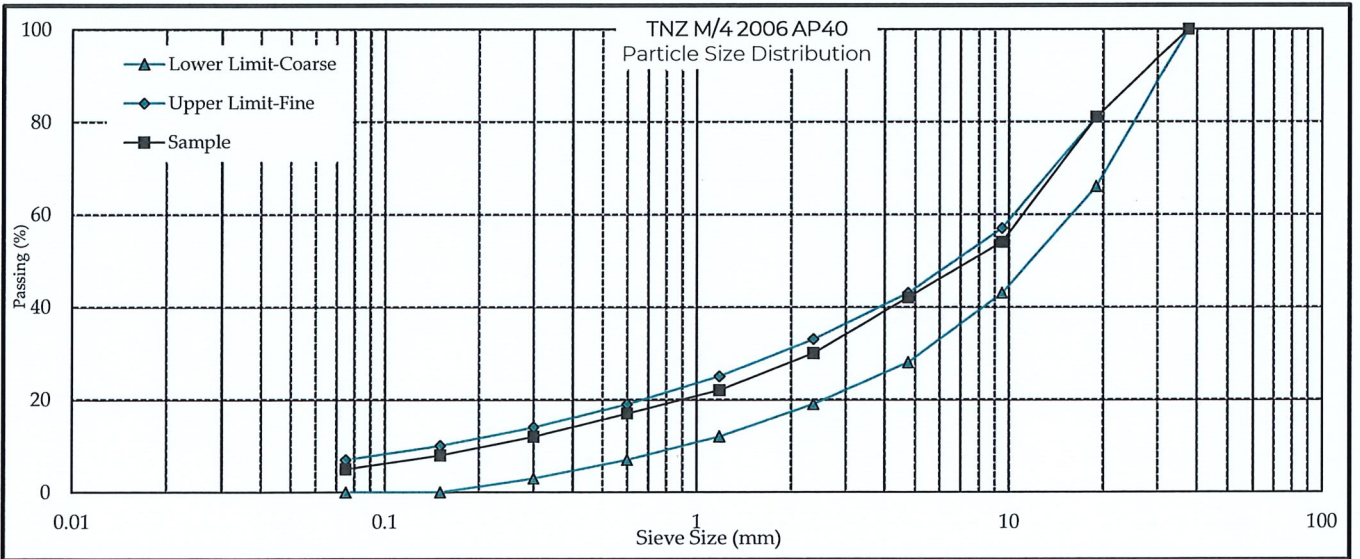
Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
37.5 - 19.0	89	70
19.0 - 9.5	76	70
9.5 - 4.75	75	70

% passing the finest sieve is obtained by difference

Plasticity Index	
Sample PI	Non Plastic
Specification	<= 5

Clay Index	
Sample CI	0.5
Specification	<= 3

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



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

Date tested : 28 February 2025
 Date reported : 11 March 2025
 Sampling is covered by IANZ Accreditation
 This report may only be reproduced in full
 All information supplied by Client

Approved Signatory 
 Designation : Laboratory Manager
 Date : 11 March 2025



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

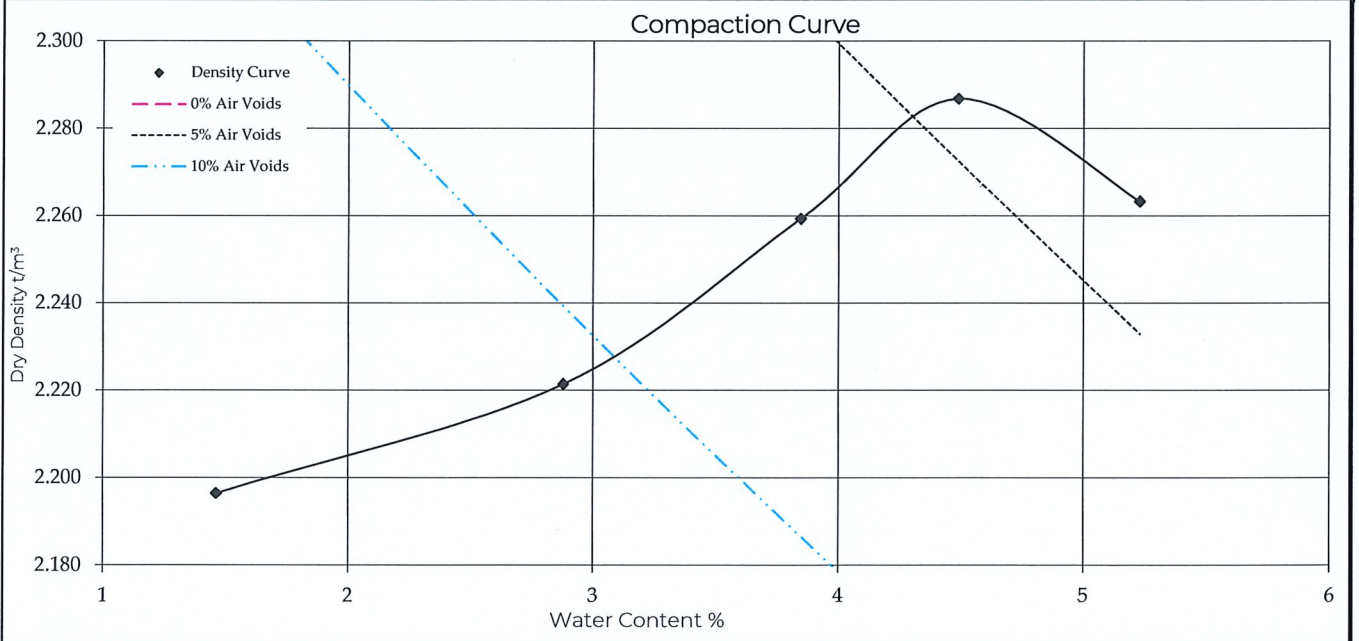
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
 Location : Production Stock
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 Date sampled : 14 February 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 : Rolleston Quarry

Project No :	6-JRMCO.16/6LC
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Test Results								
Maximum dry density	2.28	t/m ³				Natural water content	1.5	%
Optimum water content	4.4	%				Fraction tested	Whole	
Sample ID	NAT	+1%	+2%	+3%	+4%			
Bulk density t/m ³	2.229	2.285	2.346	2.390	2.382			
Water content %	1.5	2.9	3.8	4.5	5.2			
Dry density t/m ³	2.196	2.221	2.259	2.287	2.263			
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

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 Date reported : 13 March 2025

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