

AP40
TEST REPORT



Project : Quality Assurance
Location : Production Stock
Client : Road Metals Company Limited
Contractor : Various
Sampled by : Steve Gilbert (Road Metals)
Date sampled : 11 April 2025
Sampling method : NZS 4407: 2015 (2.4.6.3.2)
Sample description : AP40
Sample condition : Damp as received
Source : Rolleston Quarry

Project No : 6-JRMCO.16/6LC
Lab Ref No : CH12725
Client Ref No : 915-172

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
63.0	-	
37.5	100	
19.0	81	
9.5	43	
4.75	27	
2.36	20	
1.18	16	
0.600	15	
0.300	10	
0.150	6	
0.075	4	

% passing the finest sieve is obtained by difference

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
19.0 - 4.75	54	28 - 48
9.5 - 2.36	23	14 - 34
4.75 - 1.18	11	7 - 27
2.36 - 0.600	5	6 - 22
1.18 - 0.300	6	5 - 19
0.600 - 0.150	9	2 - 14

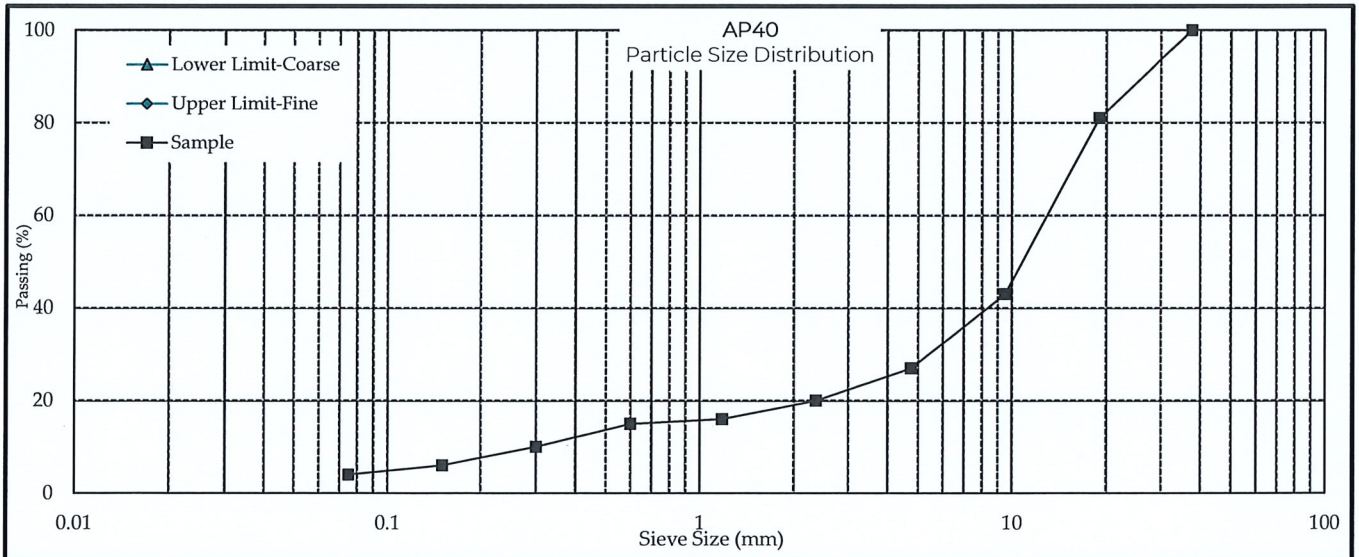
Crushing Resistance		
% Fines @ Spec. Load	-	%
Specification	-	%
Crushing Resistance	-	kN
Nom Aggregate Size	-	mm
Specified Load	-	kN

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

Plasticity Index	
Sample PI	Non Plastic
Specification	

Clay Index	
Sample CI	0.8
Specification	

Sand Equivalent (Brushed, Hand Shaking)	
Sample SE	17
Specified	



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 : 31 May 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 : 31 May 2025



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

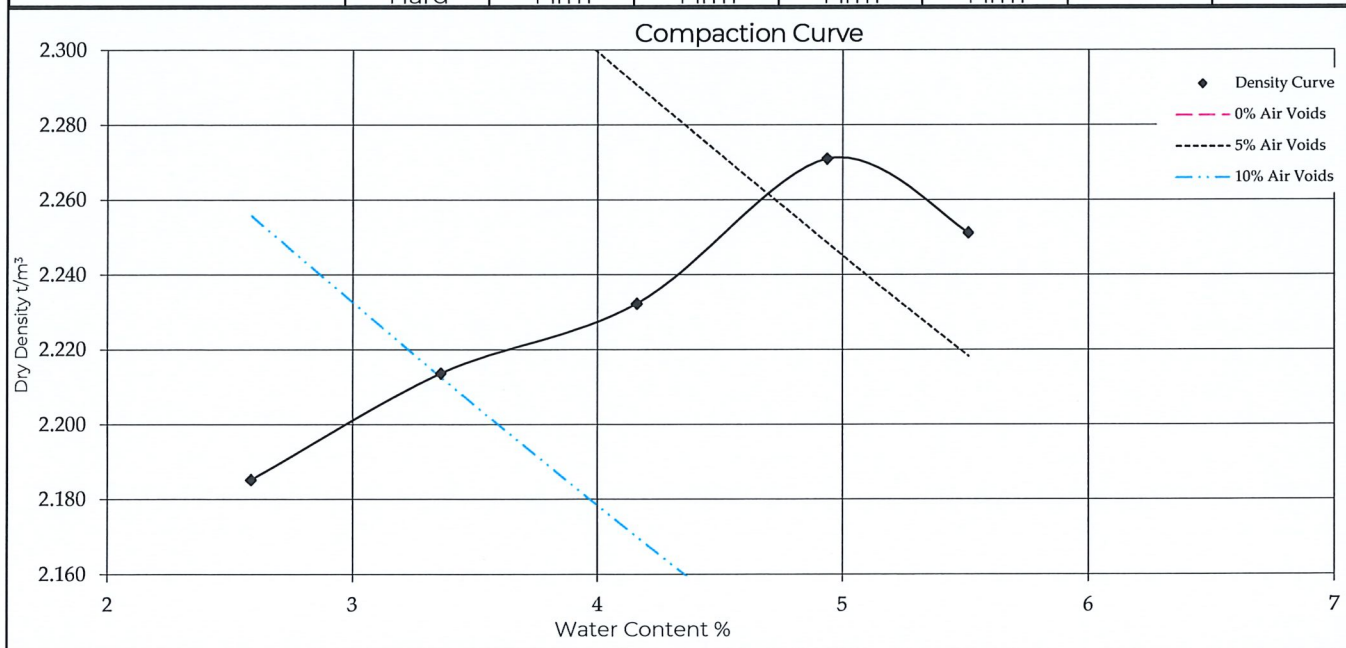
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Steve Gilbert (Road Metals)
 Date sampled : 11 April 2025
 Sampling method : NZS 4407: 2015 (2.4.6.3.2)
 Sample description : AP40
 Sample condition : Damp as received
 Solid density : 2.68 t/m³ (Assumed)
 Source : Rolleston Quarry

Project No : 6-JRMCO.16/6LC
 Lab Ref No : CH12725
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Test Results							
Maximum dry density	2.28	t/m³	Natural water content			3.5	%
Optimum water content	5.0	%	Fraction tested			Whole	
Sample ID	-1%	NAT	+1%	+2%	+3%		
Bulk density t/m³	2.242	2.288	2.325	2.383	2.375		
Water content %	2.6	3.4	4.2	4.9	5.5		
Dry density t/m³	2.185	2.214	2.232	2.271	2.251		
Sample condition	Moist	Wet	Wet	Wet	Saturated		
	Hard	Firm	Firm	Firm	Firm		



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

Date tested : 28 May 2025
 Date reported : 31 May 2025

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Approved Signatory

Designation : Laboratory Manager
 Date : 31 May 2025



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