

QUARRY AGGREGATE DATA SHEET

Basic Information

Quarry Location	Drury, South Auckland
Type of Rock	Greywacke
Type of Aggregate	MR8 AP65 (Historic MANARC Specification)
Type of Processing	Pugmill Blend of High Quality Fines, Crushed 65/40 and Scalped DQ65 or Pugmill Blend of High Quality Fines, Crushed 65/40 and Crushed DQ65 or Two Stage Crushing and Screening



Quality
ISO 9001



Technical Information

Property		Standard	Test Method	Specification	Typical Value
Source	Crushing Resistance	NZS 4407 : 2015	Test 3.10	10% Max @ 100kN	1.5% @ 100kN
	Solid Density	NZS 4407 : 2015	Test 3.7.1	-	2.71t/m ³
	Weathering Quality Index	NZS 4407 : 2015	Test 3.11	>CA	>BA
Production	Grading	NZS 4407 : 2015	Tests 3.8.1	See overleaf	See overleaf
	Plasticity Index	NZS 4407 : 2015	Tests 3.2, 3.3 & 3.4	-	Non Plastic to 11
	Sand Equivalent	NZS 4407 : 2015	Test 3.6	>25	>30
	Clay Index	NZS 4407 : 2015	Test 3.5	-	<2.0
Other	CBR (soaked)	NZS 4407 : 2015	Test 3.15	-	>200
	MDD – NZ Vib Hammer	NZS 4402 : 1986	Test 4.1.3	-	2.34 t/m ³ @ 5.5% OWC
	MDD – Hvy Compaction		Test 4.1.2	-	2.19 t/m ³ @ 8.5% OWC
	MDD – Std Compaction		Test 4.1.1	-	2.10 t/m ³ @ 11% OWC
	Loose Unit Weight ⁱ	ASTM C29/29M-97	Shovelling procedure	-	M _{Dry} ≅ 1630 kg/m ³ M _{SSD} ≅ 1662 kg/m ³

Standard Applications

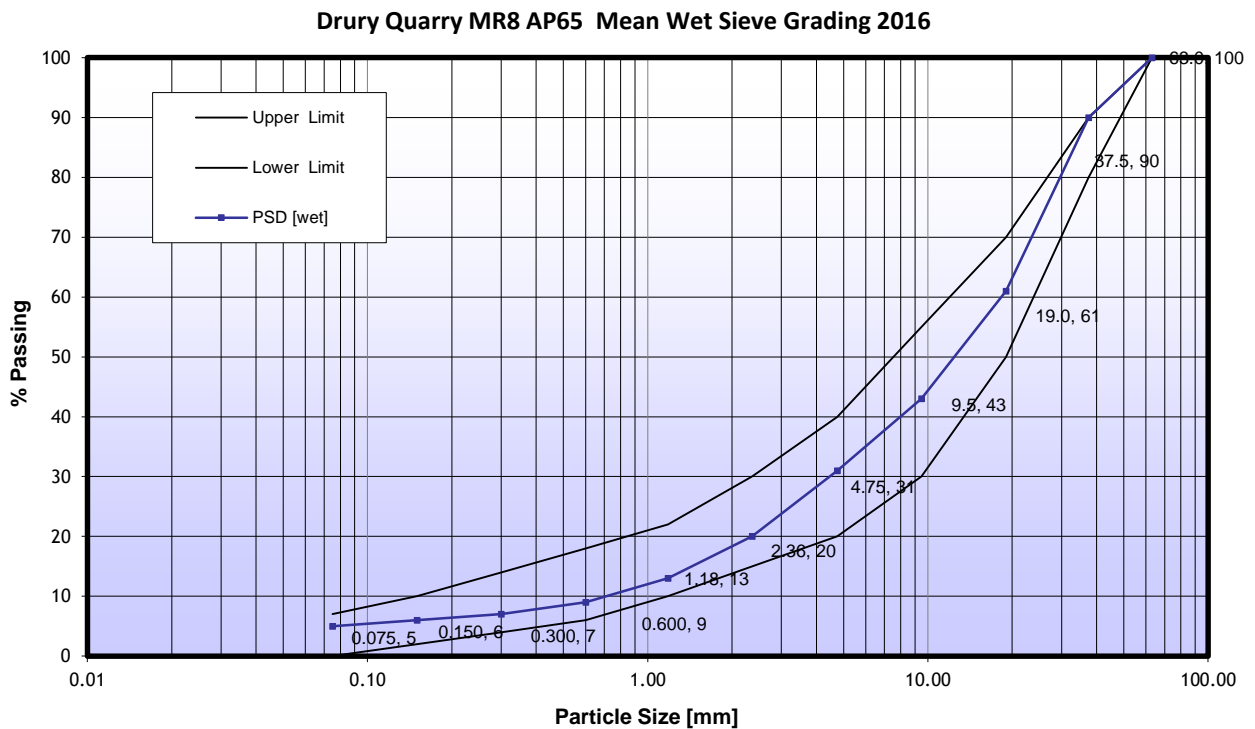
Roading	Hard-fill, Subgrade Improvement, Subbasecourse.
Farming & Industry	Permanent & Temporary Roads and Platform
Civil Construction	Trench Bedding and Backfill. Structural Hard-fill.

Chemical Treatment

MR8 AP65 responds well to lime and cement modification.

General Description

MR8 AP65 is a densely graded sub-base aggregate with the intended grading along $n=0.45$ line on a log/log graph. Its strictly controlled grading is designed to provide for the maximum workability and highest stability through minimal voids.



Disclaimer

The information in this leaflet is informal and it can be altered without notice. Due to the inherent variability of the parent rock, this aggregate must be subjected on each particular occasion to necessary testing and verification of the above outlined properties.

ⁱ The relationship between degrees of compaction/density for aggregates loose in a truck or stockpile compared to that achieved in this test is unknown. Moreover, surface water content in aggregates varies pending the season and it is not accounted for in this test.