







## 5. PRODUCTION PROPERTIES

Production properties are related to manufacturing systems and handling. Production property testing shall be carried out on each individual sealing chip grade as specified in Table 2, Table 3 and Table 4 below, as appropriate, at a rate of at least one sample for every 500m<sup>3</sup> of that particular sealing chip grade produced.

### 5.1 Cleanness

When tested in accordance with *NZS 4407 Test 3.9 the Cleanness Value of Coarse Aggregate*, chip must have a cleanness value not less than the value detailed in Table 2 below.

Table 2: Minimum Cleanness Values

Chip Grade	Minimum Cleanness Value
2	89
3	87
4	85
5	Report only
6	Report only

Grades 5 and 6 chip shall be tested for Cleanness Value. The whole aggregate size range shall be tested. Any reported value is for advisory purposes only.

### 5.2 Size and Shape

When tested in accordance with *NZS 4407 Test 3.13 – The Size and Shape of Aggregate Particles*, and *NZS 4407 Test 3.14 – The Broken Faces Content of Aggregate*, the chip shall comply with the requirements detailed in Table 3 for the grade specified.

Sealing chip produced from alluvial sources and GMA shall be tested for Broken Faces Content in accordance with *NZS 4407 Test 3.14*.

Table 3: Size Shape and Broken Faces of Grades 2, 3, 4 and 5 Sealing Chip

Grade of Chip	ALD (mm)	% of Least Dimensions Within 2.5mm of ALD	AGD/ALD Ratio	% Passing 4.75mm Sieve	% With at Least Two Broken Faces
2	9.5 – 12.0	65 min.	2.25 max.	1.1 max.	98 min.
3	7.5 – 10.0	70 min.	2.25 max.	1.1 max.	98 min.
4	5.5 – 8.0	75 min.	2.25 max.	1.1 max.	98 min.
5	Report	Report	Report	Report	Report

#### Notes:

1. Sealing chip produced from a natural hard rock (i.e. non-alluvial) quarry does not need to be tested for Broken Faces unless disputed.
2. In addition to the reported criteria above, Grade 5 chip must also comply with the requirements of Table 4.
3. Conduct the Size and Shape testing for Grade 5 chip on the sample portion retained on the 4.75mm test sieve. Reported values are for advisory purposes only.

### 5.3 Particle Size Distribution for Grades 5 and 6 Sealing Chip

When tested in accordance with *NZS 4407 Test 3.8.2 – The Particle Size Distribution*, sealing chip shall comply with the requirements of Table 4 below.

Table 4: Particle Size Distribution of Grades 5 and 6 Chip

Sieve Size (mm)	Percentage Passing Sieve	
	Grade 5	Grade 6
13.2	100	-
9.5	95 - 100	100
6.7	-	95 - 100
4.75	0 - 8	-
2.36	0 - 2	0 - 15
0.300	0	0 - 8

## 6. COMPLIANCE

Before commencement of supply, the aggregate producer must submit proof of compliance.

Documentation must be provided in accordance with clauses 4 and 5, in addition to the producers' quality plan. Source rock must comply with the requirements of clause 4, and production properties must comply with the appropriate requirements of clause 5 at all times.