

**CITY OF WHITEHORSE SERVICING STANDARDS MANUAL
PART 3 – CONSTRUCTION SPECIFICATIONS
SECTION 3.25 - MATERIAL SPECIFICATIONS FOR BITUMINOUS SURFACE
TREATMENT AGGREGATE**

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SECTION 3.25 – MATERIAL SPECIFICATIONS FOR BITUMINOUS SURFACE TREATMENT AGGREGATE

3.25.1 DESCRIPTION

This specification covers the specific requirements for aggregates for use as Bituminous Surface Treatment.

3.25.2 MATERIALS

B.S.T. Aggregate is to satisfy all requirements of Tables 1 and 2 of this specification and unless otherwise specified is to be:

- Crushed rock composed of hard, uncoated, cubical fragments, produced from rock formations or boulders of uniform quality; or
- Crushed gravel composed of hard, durable, uncoated particles, produced from naturally formed deposits.

3.25.3 PHYSICAL REQUIREMENTS

Irrespective of compliance with the physical requirements, aggregates may be accepted or rejected based on past field performance.

TABLE 3.25.3.1a –PHYSICAL REQUIREMENTS OF AGGREGATE

C.G.S.B. 8-GP-2M SIEVE (µM) DESIGNATION	PERCENT PASSING DESIGNATED SIEVE		
	12.5 mm B.S.T. Aggregate	20 mm B.S.T. Aggregate	16 mm B.S.T. Aggregate
20,000	----	100	----
16,000	----	----	100
12,500	100	63 - 89	----
10,000	82 - 100	----	70 - 90
5,000	42 - 72	36 - 56	32 - 60
2,500	27 - 52	18 - 38	22 - 46
1,250	19 – 36	12 – 30	15 - 34

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C.G.S.B. 8-GP-2M SIEVE (µM) DESIGNATION	PERCENT PASSING DESIGNATED SIEVE		
	315	9 - 23	4 - 18
80	0 - 5	0 - 5	0 - 5

TABLE 3.25.3.1b –PHYSICAL REQUIREMENTS OF AGGREGATE

PHYSICAL TEST	12.5 MM B.S.T. AGGREGATE	20 MM B.S.T. AGGREGATE	16 MM B.S.T. AGGREGATE
Los Angeles Abrasion ASTM C131 Gradation "B" Percent Max Loss	25	25	25
Percent Crushed Minim*	60%	60%	60%
Flat & Elongated Particles Ratio 5:1 Percent Maxim	8	8	8

*The percent of crushed material will be determined by examining the fraction retained on the 5,000 µm sieve and dividing the mass of the crushed particles by the total mass retained on the 5,000 µm sieve.