

## TECHNICAL DATA

2016



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### BUTON ROCK APHALT (BRA<sup>®</sup>)

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Buton Rock Asphalt (BRA<sup>®</sup>) is processed natural rock asphalt through series of selection, crushed and drying of the raw material. Thus, it is manufactured and produced in granular form with 2,36 mm maximum particle's size, BRA<sup>®</sup> consists of bitumen (25%) and mineral (75%). BRA<sup>®</sup> is used as bituminous modifier for asphaltic mixture in road construction.

#### PRODUCT DATA

Unit Weight Ton/m <sup>3</sup>	: ± 0,8
Type	: 5/20
Color	: Black
Bitumen Content (%)	: 18 – 22%
Specific Gravity	: 1.070 – 1080
Flash Point ( Cleveland Open Cup ) Bitumen(°C)	: > 230°C
Water Content (%)	: Max 2.0
Maximum Particle's Size	: 2,36 mm
Penetration Bitumen (dmm)	: < 5

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### TEST RESULT OF BRA

NO	TEST	TEST METHOD	RESULTS	SPECIFICATION	UNIT	MINERAL FILLER
1	Gradation (% Passing) :	ASTM C 136				
	• Sieve no.8		100	-	-	100
	• Sieve no.16		85	-	% loss	100
	• Sieve no.30		70	-	% loss	95
	• Sieve no.50		43	-	% loss	88
	• Sieve no.100		16	-	% loss	64
	• Sieve no.200		2,5	-	% loss	38
2	Bitumen Content	ASTM D1856	22.52	18-22%	%	-
3	Specific Gravity Bitumen	ASTM D854	1.071	-	-	-
4	Flash Point	ASTM D9272	232	Min.230	°C	-
5	Water Content	ASTM D1461	0.81	Max 2.0	%	-

### TEST RESULT OF BAI® BITUMEN

NO	TEST	TEST METHOD	RESULTS	SPECIFICATION	UNIT
1	Penetration at 25°C ,100g, 5 sec	ASTM D 5	2	Max 10	0.1 mm
2	Softening Point	ASTM D 2398	85	-	-
3	Specific Gravity	ASTM D 70	1.071	-	-
4	Loss on Heating(TFOT)	ASTM D 1754	0.503	Max 0.7	%

### APPLICATION

Dosage : 3% by total weight of asphalt Hot mix

