



# Colas Északkő Ltd.

H-3915 Tarcsl, Malom street 10.

16

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## MSZ EN 13043:2003

### Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas

	Section	Essential specifications	Test method	Specifying results	Products name/origin (quarry)/Type:		
					KZ 4/8 /SK/	Tálya Quarry	andesite aggregates for asphalt
					Quality features		
Geometrical requirements	4.1.2.	Aggregate size (d/D)			4/8		
	4.1.3.	Grading	EN 933-1	class	G <sub>c</sub> 90/15		
	4.1.3.1.	Overall limits and tolerances for coarse aggregate grading at mid-size sieves	EN 933-1	class	G <sub>NR</sub>		
	4.1.3.2.	Tolerances on declared typical grading for fine and all-in aggregates	EN 933-1	class	G <sub>Tc</sub> NR		
	4.1.4.	Fines content	EN 933-1	class	f <sub>1</sub>		
	4.1.5.	Fines quality	EN 933-9	class	M <sub>B</sub> NR		
	4.1.6.	Flakiness Index (FI)	EN 933-3	class	FI <sub>20</sub>		
	4.1.6.	Shape Index (SI)	EN 933-3	class	SI <sub>NR</sub>		
	4.1.7.	Percentage of crushed and broken particles	EN 933-5	class	C <sub>100/0</sub>		
4.1.8.	Angularity of fine aggregates	EN 933-6	class	E <sub>Cs</sub> NR			
Physical requirements	4.2.2.	Resistance to fragmentation (LA)	EN 1097-2	class	LA <sub>20</sub>		
	4.2.3.	Resistance to polishing for application in surface courses (PSV)	EN 1097-8	class	PSV <sub>56</sub>		
	4.2.4.	Resistance to surface abrasion (AAV)	EN 1097-8	class	AAV <sub>NR</sub>		
	4.2.5.	Resistance to wear (mDe)	EN 1097-1	class	M <sub>DE</sub> 15		
	4.2.6.	Resistance to abrasion from studded tyres for application in surface courses	EN 1097-9	class	A <sub>N</sub> NR		
	4.2.7.1.	Particle density	EN 1097-6	given value	2,64 Mg/m <sup>3</sup>		
	4.2.7.2.	Water absorption	EN 1097-6	given value	NPD		
	4.2.9.2.	Resistance to freezing and thawing	EN 1367-1	class	F <sub>1</sub>		
	4.2.9.2.	Magnesium sulfate soundness of coarse aggregates	EN 1367-2	class	MS <sub>18</sub>		
	4.2.10.	Resistance to thermal shock	EN 1367-5	given value	V <sub>LA</sub> = 3%; I = 0,58%		
	4.2.11.	Affinity to bituminous binder	EN 12697-11	given value	90%		
	4.2.12.	„Sonnenbrand“ of basalt	EN 1367-3	class	SB <sub>NR</sub>		
	4.3.2.	Chemical composition	EN 932-3	given value	NPD		
	4.3.3.	Coarse lightweight contaminators	EN 1744-1	class	m <sub>LPC</sub> NR		
Other requirements	4.2.8.	Bulk density	EN 1097-3	given value	1,32 Mg/m <sup>3</sup>		

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