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Declaration of performance

Nr 0402 - CPR – SC1105-13

Type of product:
Aggregates of blast furnace slag.

Designation of product:
Hyttsten 4/8 and Hyttsten 8/11.

Intended use:
Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas.

Manufacturer:

Company:	SSAB Merox AB SE-613 80 Oxelösund SWEDEN
Telephone:	+46 155 25 44 00
Homepage:	www.merox.se

System or systems of evaluation and verification of constancy of performance:	Hyttsten 4/8 and Hyttsten 8/11: system 2+
Notified body:	SP Technical Research Institute of Sweden
Nr. of notified body:	0402

SP has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control for Hyttsten 4/8 and 8/11. Certificate number for factory production control (FPC) is 0402-CPR- SC1105-13.

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Declared performance:

Essential characteristics	Performance		Test standard	Harmonized technical specification
Particle size	4/8	8/11		SS-EN 13043
Grading	G_c90/15		EN 933-1	
Particle shape	NPD**		EN 933-3	
Oven-dried particle density Mg/m^3	2,69	2,64	EN 1097-6	
Water absorption	NPD***			
Cleanliness	NPD			
Affinity to bituminous binders	NPD			
Percentage of crushed particles/broken surfaces	NPD			
Resistance to fragmentation/crushing (test size range 10/14 mm)	LA_{30}		EN 1097-2	
Resistance to polishing/abrasion/ wear				
Polished stone value	NPD			
Aggregate abrasion value(AAV)	NPD			
Resistance to wear of coarse aggregate (test size range 10/14 mm)	$M_{DE}20$		EN 1097-1	
Abrasion from studded tyres (test size range 11,2/16 mm)	A_N19		EN 1097-9	
Resistance to thermal shock	NPD			
Volume stability:				
Magnesium sulfate soundness	NPD			
Dicalcium silicate disintegration of air cooled blast furnace slag	NPD*			
Iron disintegration of air cooled blast furnace slag	NPD*			
Volume stability of steel slag aggregates	NPD			
Composition/Content	NPD****			
Emission of radioactivity	NPD			
Release of heavy metals	NPD****			
Release of polyaromatic carbons	NPD			
Release of other dangerous substances	NPD			
Durability against freeze-thaw	NPD*			
Durability against weathering	NPD			

* Analyzed once in 2008 – The analyzed result can be obtained on request.

** Analyzed once in 2013 – The analyzed result can be obtained on request.

*** Analyzed once in 2017 – The analyzed result can be obtained on request.

**** Analyzed once every year – The analyzed result can be obtained on request.

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Declared grading for Hyttsten 4/8 according to SS-EN 13043.

Sieve size (mm)	2	4	8	11,2	16
	Percentage passing by mass				
Upper limit	5	15	99	100	100
Target value	0,5	5	98	100	100
Lower limit	0	0	90	98	100

Declared grading for Hyttsten 8/11 according to SS-EN 13043.

Sieve size (mm)	4	8	11,2	16	22,4
	Percentage passing by mass				
Upper limit	5	15	99	100	100
Target value	0	12	95	100	100
Lower limit	0	0	90	98	100

The performances of the presented products are in conformity with the declared characteristics listed in the table above.

This declaration of performance is issued under the sole responsibility of the above manufacturer.

Signed for the manufacturer by:

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Jan Wide, Site Manager
Merox Oxelösund

Oxelösund 24/3 - 2017

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Place and date