

## DECLARATION OF PERFORMANCE

OKTO-Croval, 2022

1. Unique identification code of the product-type: **OKTO-Croval, 2022**
2. Intended use of the construction product:  
**Aggregates for concrete**
3. Name and the contact address of the manufacturer: **Outokumpu Chrome Oy, 95490 Tornio, tel. +358 16 4521**
5. System of assessment and verification of constancy of performance of the construction product: **System 2+**
6. In the case of declaration of performance concerning a construction product covered by a harmonized standard:

Notified factory production control certification body No. 0416 (Inspecta sertifiointi Oy) performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate 0416-CPR-3591-04 of conformity of the factory production control.

7. Declared performance

Essential characteristics	Performance	Harmonised technical specification												
Particle size	0/5 mm	EN 12620: 2002+A1:2008												
Category	GA90													
Particle density	3,0...3,5 mg/m <sup>3</sup>													
Cleanliness	f <sub>11</sub>													
Percentage of crushed and broken surfaces	NPD													
Affinity to bituminous binders	NPD													
Resistance to fragmentation/crushing	NPD													
Resistance to polishing/abrasion/wear/attrition	NPD													
Resistance to thermal shock	NPD													
Volume stability	NPD													
Water absorption	WA <sub>24</sub> 1													
Composition/content	<table style="margin: 0 auto; border: none;"> <tr><td>SiO<sub>2</sub></td><td style="text-align: right;">30%</td></tr> <tr><td>Al<sub>2</sub>O<sub>3</sub></td><td style="text-align: right;">26%</td></tr> <tr><td>MgO</td><td style="text-align: right;">23%</td></tr> <tr><td>Cr</td><td style="text-align: right;">8%</td></tr> <tr><td>Fe</td><td style="text-align: right;">4%</td></tr> <tr><td>CaO</td><td style="text-align: right;">2%</td></tr> </table>		SiO <sub>2</sub>	30%	Al <sub>2</sub> O <sub>3</sub>	26%	MgO	23%	Cr	8%	Fe	4%	CaO	2%
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MgO	23%													
Cr	8%													
Fe	4%													
CaO	2%													
Dangerous substances:	NPD													
Emission of radioactivity Release of heavy metals Release of polyaromatic carbons Release of dangerous substances														
Durability against freezing and thawing	NPD													

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of manufacturer by:

Eveliina Karjalainen, Senior Manager, Outokumpu Stainless Oy

1.10.2022, Tornio

## **AAR-SUMMARY**

**Alkali-aggregate reactivity of Croval**

**Alkali reactivity class**

**III**

**Testing method**

**AAR-2**

**Date: 1.10.2022**

**Signature**



**Eveliina Karjalainen**