



STELUX<sup>®</sup>  
SPECIAL SERIES



# STELUX CG<sup>®</sup>

A premium stainless steel grit for surface preparation, cleaning, deburring of non-ferrous metals, stainless steel castings and forgings



Due to its high mechanical performance and lifetime, STELUX CG offers a real ecological alternative to other surface preparation solutions, such as blasting with aluminum oxide, garnet and other mineral abrasives, which generates much more waste and dust emissions.

## STELUX CG TECHNICAL DATA SHEET

CHEMICAL COMPOSITION (WEIGHT %)	C ~ 2%, Cr ~ 30%, Si ~ 3.5%, Mn ~ 2%
AVERAGE HARDNESS (HRC)	58 ± 3
SPECIFIC GRAVITY	7.4
SHAPE	Angular
MICROSTRUCTURE	Austenitic matrix with martensitic islands and chromium carbides
PACKAGING	25 kg (55lbs) LDPE bag on 500 kg (1102 lbs) EUR – pallet Customized packing upon request

*A range of products dedicated for both air-blasting and wheel-blasting surface preparation operations*

### Applications

- Stainless steel castings, forgings and welded parts
- Galvanized steel
- Special alloys: Nickel-based alloys, Titanium alloys
- Surface preparation prior powder coatings application
- Aluminium casting alloys and parts
- Non-ferrous metals castings and parts
- Zinc pressure die – castings

### Benefits

- Non – ferrous contamination
- Reduced abrasive breakdown
- Stable operating mix
- Customized surface topography
- Diminished blasting time
- Improved working conditions
- 100% recyclable

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W Abrasives  
your key success factor



STELUX CG - CUMULATIVE SIZE DISTRIBUTION (%)										
Mesh #	Sieve size mm	STELUX CG 200	STELUX CG 150	STELUX CG 100	STELUX CG 60	STELUX CG 50	STELUX CG 40	STELUX CG 30	STELUX CG 20	STELUX CG 10
7	2.80	AP								
8	2.36	Max 10	AP							
10	2.00		Max 10	AP						
12	1.70			Max 10						
14	1.40	Min 85			AP					
16	1.18		Min 85		Max 10	AP				
18	1.00			Min 85		Max 10	AP			
20	0.85						Max 10			
25	0.71				Min 85			AP		
30	0.60					Min 85		Max 10		
35	0.50									
40	0.425						Min 85		AP	
45	0.355								Max 10	
50	0.300									AP
80	0.180							Min 85		Max 10
120	0.125								Min 85	
200	0.075									Min 85

## STELUX CG VS. MINERAL ABRASIVES - KEY FIGURES

MECHANICAL CHARACTERISTICS	Hardness (HV)	Specific gravity
STELUX CG	650	7.4
Corundum (White / Brown Al <sub>2</sub> O <sub>3</sub> )	2000	3.9
Garnet	1450	3.9
Glass Beads	440	2.5

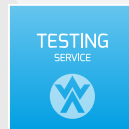
LIFETIME	
STELUX CG vs. Corundum (White / Brown Al <sub>2</sub> O <sub>3</sub> )	30 :1
STELUX CG vs. Glass Beads	50 :1
STELUX CG vs. Garnet	60 :1

## W ABRASIVES ADDED – VALUE SOLUTIONS

W Abrasives provides customized solutions for your application through specific products, technologies and services, which will enhance your global surface preparation process in terms of productivity, quality, working conditions and overall cost.

### Productivity

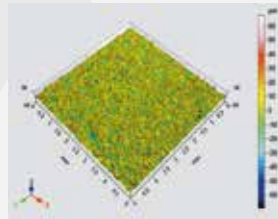
- Customized training modules in our test centers & on customer's site
- Trials in our test centers located worldwide
- Technical support & consulting services



### Quality

- Increased peak count due to a stable operating mix
- Improved coating performance owing to an homogeneous surface topography
- Cleaner parts

Illustration of a 3D surface profile obtained with STELUX CG on galvanized steel



### Improved Working Conditions

- Less dust generation
- Improved visibility
- Significantly decreased fouling of the filters
- Reduced environmental impact



Dust generation benchmark STELUX CG vs Corundum at a working pressure of 5 bar (73 psi)

### Blasting cost in €/m<sup>2</sup>



### Cost

- Overall blasting cost savings of more than 50%
- Abrasives consumption reduction
- Cost - effective maintenance
- Reduced waste disposal
- Reduction of re - blasting

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