AGSCO CORPORATION

TECHNICAL DATA

Stainless Steel Grit

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, AGSCO CORPORATION 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.

Stainless Steel Grit TECHNICAL DATA SHEET	
CHEMICAL COMPOSITION (WEIGHT %)	C ~ 2%, Cr ~ 30%, Si ~ 3.5%, Mn ~ 2%
HARDNESS (HRC)	58
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

Revised 2/26

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Stainless Steel Grit - CUMULATIVE SIZE DISTRIBUTION (%)										
Mesh #	**Sieve size mm**	**# 200**	**# 150**	**# 100**	**# 60**	**# 50**	**# 40**	**# 30**	**# 20**	**# 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

Stainless Steel Grit VS. Mineral Abrasive - KEY FIGURES

MECHANICAL CHARACTERISTICS	Hardness (HV)	Specific gravity
Stainless Steel Grit	650	7.4
Corundum (White / Brown Al2O3)	2000	3.9
Garnet	1450	3.9
Glass Beads	440	2.5

LIFETIME	
Stainless Steel Grit vs. Corundum (White / Brown Al_2O_3)	30 :1
Stainless Steel Grit vs. Glass Beads	50 :1
Stainless Steel Grit vs. Garnet	60 :1

AGSCO CORPORATION ADDED – VALUE SOLUTIONS

AGSCO CORPORATION 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 worlwide
- 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

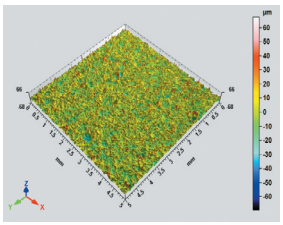


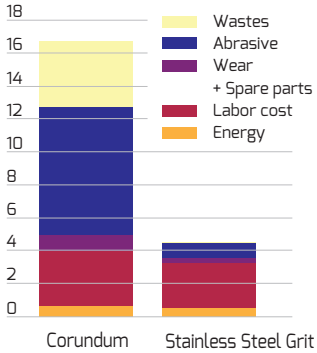
Illustration of a 3D surface profile obtained with Stainless Steel Grit on galvanized steel

Improved Working Conditions

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

Dust generation benchmark Stainless Steel Grit vs Corundum at a working pressure of 5 bar (73 psi)

Blasting cost in €/m²



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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