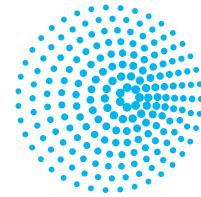


## Technical Data Sheet Steel Shots and Steel Grits



# TOCO

ADDING VALUE TO SURFACE

Steel shots and steel grits are essential abrasive materials widely used in various industrial applications for surface preparation and finishing. Steel shot is composed of small, spherical pellets made from high-quality steel. Its rounded shape allows for a consistent, smooth finish, making it ideal for processes such as shot blasting and shot peening. This material is especially useful in applications where a uniform, smooth surface is desired.

Steel grits, in contrast, are made from angular, irregularly shaped steel particles. This angular structure provides a more aggressive abrasive action, making steel grits highly effective for removing heavy rust, scale, paint, or other contaminants from metal surfaces. They are commonly used in abrasive blasting and cleaning operations where a more aggressive approach is required to achieve a clean, prepared surface for further treatment or coating.

Both steel shot and steel grits are valued for their durability and reusability, making them cost-effective choices for a range of industrial surface treatment tasks.



## Steel Shots



## Steel Grits

## Chemistry and Mechanical Properties of Steel Shots

SPECIFICATION CARBON STEEL SHOT				
Chemical Composition	Hardness	Hardness Deviation	Microstructure	Density
<b>Carbon:</b> 0.80% to 1.20% <b>Manganese:</b> 1.20% max <b>Silicon:</b> 0.40% min <b>Sulphur:</b> 0.05% max <b>Phosphorus:</b> 0.05% max	400-650 HV	Max. Deviation ± 30 HV	TEMPERED MARTENSITE	Minimum 7.0 g/cm <sup>3</sup>

## Steel Shots Size Distribution (as per SAE J 827)

## Chemistry & Mechanical Properties of Steel Grits

SPECIFICATION CARBON STEEL GRIT								
Chemical Composition		Hardness	Hardness Deviation	Microstructure	Density			
<b>Carbon:</b> 0.80% to 1.20%		GP: 400 HV – 500 HV	Max. Deviation ± 30 HV	TEMPERED MARTENSITE	Minimum 7.0 g/cm <sup>3</sup>			
<b>Manganese:</b> 0.60% to 1.20%								
<b>Silicon:</b> 0.40% min		GL: 500 HV – 600 HV	GH: 700 HV – 825 HV	TEMPERED MARTENSITE	Minimum 7.0 g/cm <sup>3</sup>			
<b>Sulphur:</b> 0.05% max		GH: 700 HV – 825 HV						
<b>Phosphorus:</b> 0.05% max								

### Steel Grits Size Distribution (as per SAE J 827)

Mesh	MM	G-10	G-12	G-14	G-16	G-18	G-25	G-40	G-50	G-80
		2.00mm	1.70mm	1.40mm	1.18mm	1.00mm	0.71mm	0.424mm	0.30mm	0.18mm
7	2.800	All Pass								
8	2.360		All Pass							
10	2.000	80% min		All Pass						
12	1.700	90% min	80% min		All Pass					
14	1.400		90% min	80% min		All Pass				
16	1.180			90% min	75% min		All Pass			
18	1.000				85% min	75% min		All Pass		
20	0.850									
25	0.710					85% min	70% min		All Pass	
30	0.600									
35	0.500									
40	0.425						85% min	70% min		All Pass
45	0.355									
50	0.300							70% min	65% min	
80	0.180								75% min	65% min
120	0.125									75% min

MANUFACTURING STANDARD	SAE J444	SAE J827	SAE J1993	ISO 11124-3	DIN 8201-2	DIN 8201-3

#### Application:

- All kinds of Castings
- Forging
- Heat Treated Components
- PEB
- Wind Towers
- Oil & Gas Pipes
- Sheet Metal Components
- Suspension Products
- Wire Rod/Coil Blasting

#### SAFETY



Protective



Gloves



Mask



#### PACKAGING (Standard)


 Bags  
25 kg

 Big Bag  
1000 kg

 Drum  
1000 kg

 Pallet  
1000 kg

#### STORAGE


 Keep  
Dry

#### CERTIFICATIONS & SYSTEM APPROVALS

