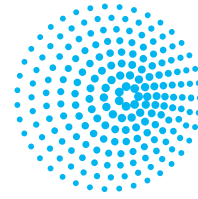


Technical Data Sheet

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 |
| Carbon: 0.80% to 1.20% Manganese: 1.20% max Silicon: 0.40% min Sulphur: 0.05% max Phosphorus: 0.05% max | 400-650 HV | Max. Deviation ± 30 HV | TEMPERED MARTENSITE | Minimum 7.0 g/cm³ |

Steel Shots Size Distribution (as per SAE J 827)

[illegible]

Chemistry & Mechanical Properties of Steel Grits

| SPECIFICATION CARBON STEEL GRIT | | | | |
|---|---|------------------------|---------------------|-------------------|
| Chemical Composition | Hardness | Hardness Deviation | Microstructure | Density |
| Carbon: 0.80% to 1.20% Manganese: 0.60% to 1.20% Silicon: 0.40% min Sulphur: 0.05% max Phosphorus: 0.05% max | GP: 400 HV – 500 HV GL: 500 HV – 600 HV GH: 700 HV – 825 HV | Max. Deviation ± 30 HV | TEMPERED MARTENSITE | Minimum 7.0 g/cm³ |

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

