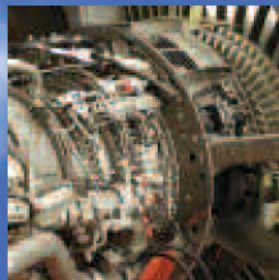




AEROSPACE SHOT PEENING



ERVIN AMASTEEL

The world
standard for
quality

Ervin Aerospace Shot Peening materials meet or exceed AMS specification, currently, **AMS-S-13165, 2431/1D & 2D**; Ervin will anticipate and match future specifications.

Ervin Aerospace Shot Peening material is selected from **superior cast steel abrasives**, superior by a clear margin, which is the Ervin commitment:

- Meticulous raw material selection and finely tuned chemistry. **Quality begins with quality ingredients.**
- **Dedicated heat treatment by product type.** This unique Ervin technology ensures fineness and consistency of the tempered martensitic microstructure. It also allows consistency in hardness, narrowing the hardness range to meet precisely AMS specifications.

- Tight grading to AMS specifications.
- Multiple swirling to retain only **near perfectly spherical particles.**
- Impact conditioning eliminates any sub standard particles, exceeding AMS specifications.

Ervin Aerospace Shot Peening material provides **longer life and enhanced transmitted energy, which translates into improved efficiency, productivity and economy.**

Ervin Aerospace Shot Peening is THE choice for high specifications and safety-critical shot peening operations.

AEROSPACE SHOT PEENING

Ervin Aerospace Shot Peening materials provide **the perfect balance between consistency, effectiveness, yield and cost** for efficient high productivity shot peening processes.

Ervin Aerospace Shot Peening products **enhance the productivity of your assets**: the stability and consistency of the microstructure allows high speed particle-projection, without equipment modification, to shot peen more parts in a shorter period of time.

Ervin Aerospace Shot Peening materials **secure the consistency and quality of your shot peening treatment**: all parameters, chemistry, microstructure, hardness, shape and size are continually monitored and guaranteed under Ervin's quality assurance system.

Ervin Aerospace Shot Peening materials **reduce your costs: longer life and improved transmitted energy** translate directly into the lowest ratio of steel abrasives to finished components within the industry.

Ervin Aerospace Shot Peening materials benefits from **Ervin's advanced and continuously-developing technology to keep in line with advancing levels of equipment sophistication**.

Ervin Aerospace Shot Peening materials are superior in both manufacture and utilisation to any steel abrasive peening media currently available and are the preferred choice of the major automotive plants worldwide.

BENEFITS:

- **Environmentally friendly**, from manufacturing process to blasting and recycling.
- **Economically sound** providing the lowest peening cost-to-finish ratio due to the stability of its microstructure and consistency of hardness and grade.
- **Technically effective**, developed for the latest generation of blasting machines.
- **Quality supportive**, providing the most consistent impact finish in shot peening operations.

MICROSTRUCTURE	
Fine and uniform tempered martensite	
DENSITY	
Shot.....	7,0 Min
HARDNESS	
AMS 2431/1D ASR 45 - 52 HRC / 445 - 545 HV	
AMS 2431/2D ASH 55 - 62 HRC / 595 - 745 HV	
CHEMICAL ANALYSIS	
Carbon	0,80% - 1,2%
Manganese S-70 / S-110	0,35% - 1,2%
Manganese S-170	0,50% - 1,2%
Manganese S-230 and up	0,60% - 1,2%
Silicon	0,4% Min
Sulphur.....	0,05% Max
Phosphorus	0,05% Max
PACKAGING	
900 kg steel drum	
1 Tonne Pallet, 25 kg Paper Bags X 40	

Fine and uniform tempered martensite x100



Ervin's water-quenching technology allows the highest consistent temperature gap between the furnace and the quenching process: this provides particles with a metallurgical structure which combines the iron and carbon atoms of the steel in the finest and most regular way achievable. This metallurgical structure, **fine and homogeneous tempered martensite**, gives the shot the highest resilience possible, throughout the particles, enabling them to last a longer time in blasting situations, while transmitting high energy.

	S Hardness	M Hardness	L Hardness
S 070	•	•	•
S 110	•	•	•
S 130	•	•	•
S 170	•	•	•
S 190	•	•	•
S 230	•	•	•
S 280	•	•	•
S 330	•	•	•
S 390	•	•	•
S 460	•	•	•
S 550	•	•	•
S 660	•	•	N/A
S 780	•	N/A	N/A

The grading of Ervin Aerospace Shot Peening material meets AMS 2431/1D & 2D specifications

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