

Blastany at AMPP: Meeting the Standard as a High Quality Steel Shot Manufacturer with ISO Certification



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The Annual Conference and Exposition hosted by the Association for Materials Protection and Performance (AMPP) represents a primary gathering for corrosion prevention and surface finishing professionals globally. For industrial operations requiring predictable coatings, proper surface preparation serves as the baseline for long-term substrate protection. [Jinan Junda Industrial Technology Co., Ltd \(Blastany\)](#), actively participates in this technical dialogue by demonstrating how structured manufacturing impacts practical blasting efficiency. The enterprise has developed into a dedicated [high quality steel shot](#) manufacturer that aligns its raw material processing with established international technical requirements.

At the center of modern industrial blasting is the necessity to eliminate surface contaminants while producing an anchor profile that ensures optimal paint adhesion. By participating in industry events like AMPP, the organization connects directly with paint inspectors, facility owners, and structural engineers who require rigorous documentation and verifiable material performance for large-scale infrastructure projects. This proactive engagement helps global operators establish stable processing controls that mitigate the risk of premature coating breakdown on critical metal surfaces.

Industry Standards and Technical Relevance in Surface Treatment

Industrial coating specifications, such as those defined by the Society for Protective Coatings (SSPC) and the Society of Automotive Engineers (SAE), mandate precise control over the shape, size, and hardness of metallic abrasives. Specifically, standards like SAE J444 define strict size distributions for steel shot, ensuring that the kinetic energy delivered during centrifugal wheel blasting or air blasting remains uniform across the metal surface. Blastany brought its compliant product samples directly to the AMPP exhibition floor, establishing a dedicated space to interface with technical managers and global procurement specialists.

During the event, representatives from Jinan Junda Industrial Technology Co., Ltd provided technical consultations regarding shot selection, operational sizing, and export quality controls. Visitors received direct access to certified product test reports, which outline the chemical composition and size consistency necessary for maintaining operational stability in high-volume production facilities. This direct technical exchange allows industrial operators to address specific surface cleaning challenges, such as the removal of tight mill scale or heavy rust, while ensuring the selected media complies with international shipping and safety regulations.

The Operational Value of Certified ISO Quality Systems

Adhering to strict international standards requires a comprehensive manufacturing framework. Blastany maintains a quality management system certified under ISO 9001 alongside CE compliance, ensuring that every production run undergoes systematic monitoring from raw material selection to final packaging. Within this system, the steel shot manufacturer monitors essential physical attributes including hardness, density, and microstructure. For instance, the nominal hardness of standard carbon steel shot is held within the 40 to 50 HRC range, providing the correct balance between impact energy and durability. This structural uniformity prevents premature fracturing, which can introduce irregularly shaped fragments into the working mix and compromise the target surface profile.

For procurement managers and asset owners, sourcing from an ISO-certified supplier delivers concrete commercial and operational advantages. By utilizing high quality steel shot produced under an ISO-certified framework, asset owners can reliably meet stringent coating standards, such as the Performance Standard for Protective Coatings (PSPC) for ballast tanks and the NORSOK M501 standard for offshore structures. This certification streamlines the quality assurance auditing process for clients, providing verified traceability that simplifies regulatory compliance during external inspections. Ultimately, consistency in the abrasive media minimizes unexpected surface roughness variations, significantly reducing the likelihood of coating failure and subsequent rework costs in demanding marine and industrial environments.

Technical Profiling of Low Carbon Steel Shot Media

Achieving a precise anchor pattern requires an abrasive that balances operational durability with consistent impact energy. While standard abrasives face premature breakdown under intensive pressure, specialized engineering modifies the metallurgical characteristics to improve processing efficiency. The following technical evaluation outlines the manufacturing parameters and performance benefits that differentiate this specialized medium within industrial environments.

1. Manufacturing via Centrifugal Atomization

The internal structure of metallic abrasives determines their longevity and performance during repeated cycles. Jinan Junda Industrial Technology Co., Ltd utilizes an advanced manufacturing process featuring centrifugal atomization paired with isothermal tempering. This production technique minimizes internal defects such as shrinkage voids and micro-cracks, which are frequently found in conventional high-carbon alternatives.

The resulting low carbon steel shot offers a distinctive metallurgical profile characterized by higher toughness and lower internal stress. When the media impacts a steel plate, it absorbs the kinetic energy efficiently without shattering prematurely, maintaining its spherical shape over an extended operating period. This structural integrity guarantees that the working mix remains balanced, delivering uniform cleanliness levels across the entire treated substrate.

2. Operational Efficiency and Equipment Longevity

From an operational perspective, the durability of low carbon high quality steel shot translates directly to an extended functional lifespan, which is approximately 20% higher than standard high-carbon media. This extended life cycle reduces the frequency of abrasive replenishment within the blasting machine, lowering overall media consumption rates and minimizing warehousing overheads.

Furthering machine efficiency, because the spherical shape is maintained longer, the abrasive causes less abrasive wear on high-alloy liner plates, blast wheels, and control cages inside the machinery. Industrial sectors involved in shipbuilding, bridge construction, and heavy foundry cleaning benefit from this reduced wear, achieving lower maintenance downtime and more predictable surface finishes on large steel components.

Collaborative Engineering and Standards Alignment

As industrial projects implement more precise coating metrics, the role of an abrasive supplier shifts from a simple material vendor to a technical partner. Blastany integrates its production capabilities with technical support, guiding clients through media sizing selection based on their specific equipment configurations and target cleanliness levels, such as SSPC-SP 10 or ISO 8501-1 Sa 2.5.

By maintaining the rigorous production controls validated by its ISO certifications, Jinan Junda Industrial Technology Co., Ltd ensures its abrasives perform predictably under varied operational conditions. This commitment to standardized output supports the core mission of AMPP by helping industries prevent corrosion through controllable, high-performance surface preparation. Global operators looking to stabilize their blasting workflows can access detailed technical documentation, sizing charts, and product certifications directly via the official company portal at <https://www.blastany.com/>.



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