



# WireBlast™

## Conditioned Cut Wire

For Peening Applications

### Product Description and Technical Data:

WireBlast™ Conditioned Cut Wire is a premium peening media produced from cut wire and then conditioned to remove sharp edges and produce smooth, rounded or semi-rounded particles. It is specifically designed for shot peening applications where consistent performance, controlled surface impact and long media life are required.

Conditioning the cut wire particles reduces sharp corners and irregular shapes, resulting in media with improved flow characteristics, lower dust generation and reduced risk of surface damage. This allows for a more stable Almen intensity and highly repeatable peening results over an extended service life.

WireBlast™ Conditioned Cut Wire is available in semi-conditioned (partially rounded) and fully conditioned (spherical) forms, depending on the requirements of the application. During the conditioning process the cut wire particles are uniformly rounded to produce media with consistent size, shape, hardness and density, ideally suited for peening purposes.

For repeatable and reliable peening results, the ideal peening media should contain particles of identical size, shape, hardness and density. WireBlast™ Conditioned Cut Wire delivers these characteristics, ensuring uniform surface coverage, consistent residual stress and superior process control.

WireBlast™ Carbon Steel Conditioned Cut Wire is widely used for peening springs, gears, fasteners, forgings, castings and other fatigue-critical components. It is valued for its high durability, long service life and excellent peening performance.

WireBlast™ Stainless Steel Conditioned Cut Wire offers a non-ferrous alternative for peening stainless steel, aluminium and other non-ferrous materials, and is also used where ferrous contamination cannot be tolerated. It provides the same excellent conditioning, flow and repeatability as carbon steel grades.

WireBlast™ Conditioned Cut Wire is trusted by manufacturers worldwide for delivering consistent, high-quality peening results in demanding aerospace, automotive, energy and general industrial applications.



## WireBlast™ Abrasive Properties:

|                       | Carbon Steel | Stainless Steel<br>SUS 304 | Stainless Steel<br>SUS 430 |
|-----------------------|--------------|----------------------------|----------------------------|
| Hardness (HV)         | 400 - 500    | 400 - 600                  | 300 - 450                  |
| Density (g/cc)        | 7.6          | 7.6                        | 7.6                        |
| Bulk Density (kg/l)   | 4.4          | 4.4                        | 4.4                        |
| Ferrous / Non Ferrous | F            | F                          | F                          |
| C %                   | 0.4 - 0.7    | < 0.08                     | < 0.12                     |
| Si %                  | 0.15 - 0.35  | < 1                        | < 0.75                     |
| Mn %                  | 0.6 - 0.9    | < 2                        | < 1                        |
| P %                   | < 0.04       | < 0.045                    | < 0.04                     |
| S %                   | < 0.04       | < 0.03                     | < 0.03                     |
| Ni %                  | /            | 8 - 10.5                   | N/A                        |
| Cr %                  | /            | 18 - 20                    | 16 - 18                    |
| Cu %                  | < 0.04       | /                          | /                          |
| Fe %                  | > 99         | /                          | /                          |
| Mg %                  | /            | /                          | /                          |
| Zn %                  | /            | /                          | /                          |
| Pb %                  | /            | /                          | /                          |
| Cd %                  | /            | /                          | /                          |

## WireBlast™ Available Sizes:

| Grade        | 0.2   | 0.3   | 0.4   | 0.5   | 0.6   | 0.7   | 0.8   | 1.0   | 1.2   | 1.5   | 1.7   | 2.0   |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Microns      | 200   | 300   | 400   | 500   | 600   | 700   | 800   | 1000  | 1200  | 1500  | 1700  | 2000  |
| Inch         | 0.008 | 0.011 | 0.015 | 0.019 | 0.023 | 0.027 | 0.031 | 0.039 | 0.047 | 0.059 | 0.066 | 0.078 |
| Carbon Steel | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     |
| SS304        | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     |
| SS430        | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     |

Other sizes and AMS specification available upon request

## WireBlast™ Packaging:

25kg Bags in Drum

## WireBlast™ Ordering Information:

|            |                                                                                                                                                                                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stock Code | AOT-CWXXXX-YYZZ                                                                                                                                                                                                                                                                                             |
| Key        | <p>XXXX - Product Material<br/>C62B, C72A or C82B for Carbon Steel<br/>SS304 for Stainless Steel 304<br/>SS430 for Stainless Steel 430</p> <p>YY - Product Size (e.g. 0.6mm, YY = 06)</p> <p>ZZ - Conditioned Form<br/>G2 for Semi Rounded &amp; Conditioned<br/>G3 for Fully Rounded &amp; Conditioned</p> |

Note: As-cut blasting products (G1) are covered in a separate WireBlast Cut Wire brochure.