

# EverShot™ 20A

## Microshot Peening Media

**NanoSteel EverShot™** is a ferrous micro peening alloy that combines high hardness with a low breakage rate which allows the shot peening of parts to precision specifications. The exceptional durability of the EverShot™ peening media dramatically increases operational efficiencies leading to higher throughput, lower processing costs and significantly less dust generation.

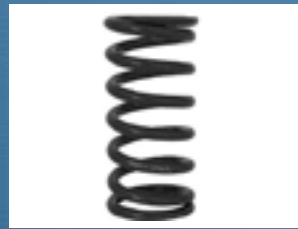
The EverShot™ media is ideal for the shot peening of hard and small parts, and parts with small radii or complex geometries such as gears, springs and threads.



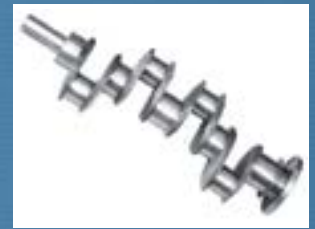
GEARS



THREADS



COIL SPRING



CRANK SHAFT

Examples of current industries and applications for EverShot™

### Shot Properties

Morphology	Spherical
Chemical Composition	Steel Alloy
Specific Density	7.36 g/cm <sup>3</sup>
Hardness Rockwell C <sup>1</sup>	≥ 73 HRC
Hardness Vickers	≥ 1100 HV
Melt Point	1141° C

<sup>1</sup> Extrapolated from HV

### Standard Available Shot Size

Product	Median Size
ES6073V20	3.3 mils (83 μm)
Custom sizes available upon request	

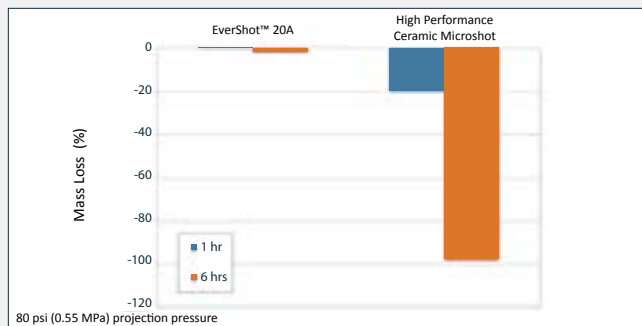
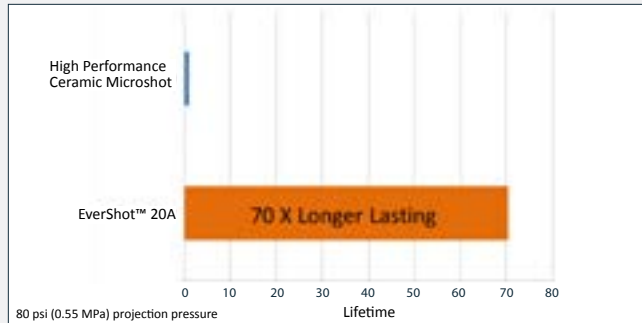


Optical image shows the spherical morphology of EverShot™ 20A

### EverShot™ 20A vs. Ceramic Microshot

#### Shot Peen Durability and Material Loss

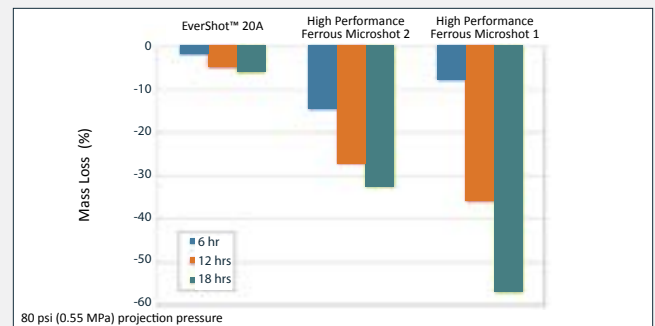
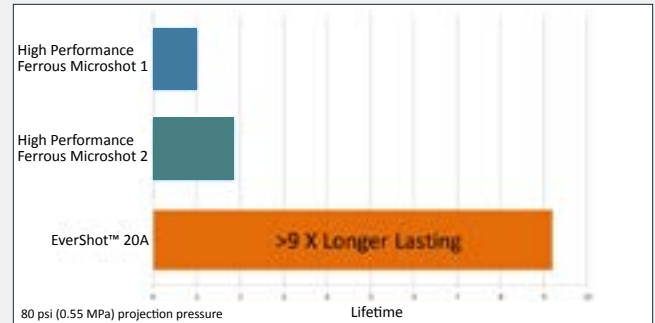
NanoSteel's durability significantly exceeds ceramic microshot and therefore lasts significantly longer



### EverShot™ 20A vs. Ferrous Microshot

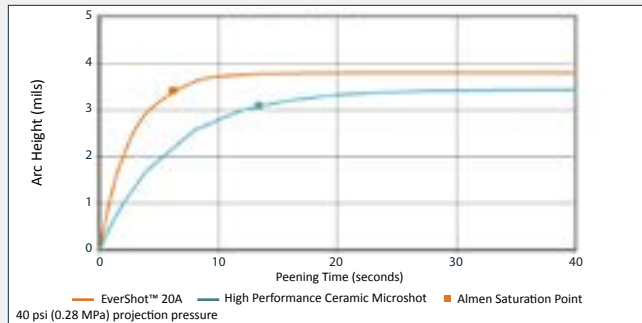
#### Shot Peen Durability and Material Loss

NanoSteel's durability significantly exceeds ferrous microshot and therefore lasts significantly longer



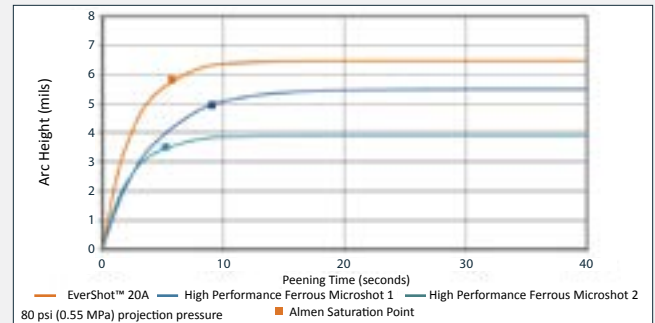
#### Almen Saturation/Intensity

NanoSteel obtains saturation faster than ceramic microshot



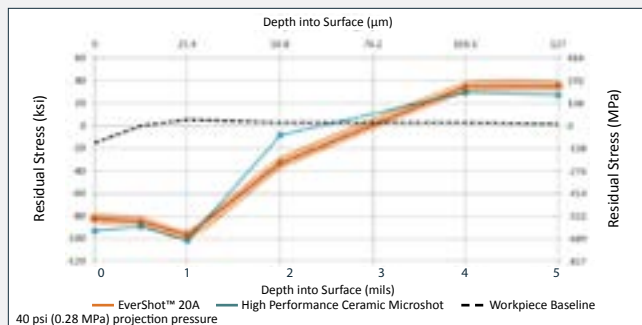
#### Almen Saturation/Intensity

NanoSteel and ferrous microshot obtain saturation at nearly the same time



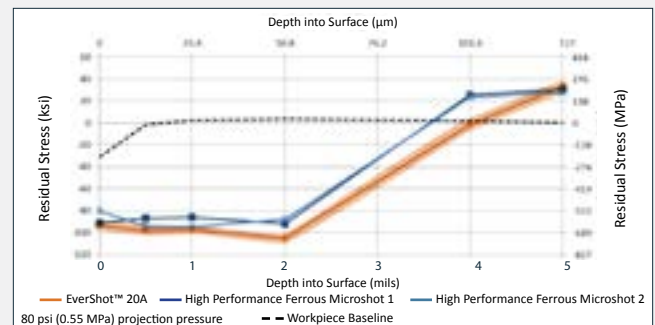
#### Residual Stress

NanoSteel's residual stress profile is similar to ceramic microshot



#### Residual Stress

NanoSteel's residual stress profile is more advantageous than ferrous microshot



#### Work Hardening

NanoSteel work hardened the workpiece to the same extent as ceramic microshot

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**Availability** In stock – 25 kg container or bulk quantity upon request