

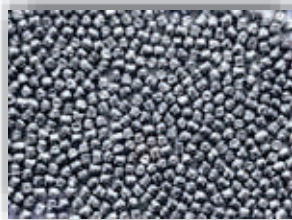
# HIGH CARBON STEEL CUT WIRE

The most cost-effective when using with shot peening for mechanical parts with hardness range of HRC 40-50. Good grain roundness, longer durability and increasing shot peening quality by reducing the damage during blasting.

**CYLINDRICAL**



**G1**



**G2**



**G3**



## TECHINICAL SPECIFICATION

Items	Technique index	
Chemical Composition	C	0.45%-0.85%
	Si	0.15%-0.35%
	Mn	0.30%-1.30%
	S	<0.050%
	P	<0.040%
	alloy elements	appropriate amount
Hardness	HV400-500(HRC40-50), HV450-550(HRC45-55), HV550-650(HRC52-58), HV610-670(HRC55-60), HV640-700(HRC57-60), HV650-750(HRC58-62)	
Density	$\geq 7.6\text{g/cm}^3$	
Unit Weight	4.4kg/L	
Microstructure	Deformation pearlite	

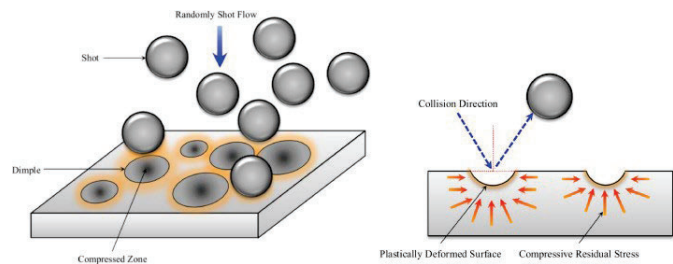
Main sizes we can supply: 0.3mm, 0.4mm, 0.5mm, 0.6mm, 0.7mm, 0.8mm, 1.0mm.

## SIZE Nominal diameter of Cut Wire:

First layer screen: +0.1mm	$\leq 5\%$
Second layer screen:	$\geq 85\%$
Third layer screen: -0.1mm	$\leq 10\%$
Dust rate	$\leq 0.5\%$

## HOW SHOT PEENING WORKS

The shot acts like a peen hammer, dimpling the surface and causing compression stresses under the dimple. The surface compression stress strengthens the metal.



## Applications: Blasting and Peening



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