



Composition of the abrasives

Products		Cast Steel Shot	Cast Steel Grit	Carbon Steel Cut Wire Shot	Stainless Steel Cut Wire Shot
Chemical Composition	(C)	0.70 ~ 1.20%		0.45 ~ 0.75%	< 0.12%
	(Mn)	0.60 ~ 1.20%		0.40 ~ 1.20%	(Gr) 17 ~ 19%
	(Si)	0.40 ~ 1.20%		0.10 ~ 0.30%	(Ni) 7 ~ 10%
	(S)	< 0.05%		< 0.04%	< 0.03%
	(P)	< 0.05%		< 0.04%	< 0.03%
Hardness	40 ~ 50 HRC 52 ~ 56 HRC 56 ~ 60 HRC	GP: 42 ~ 50HRC GL: 56 ~ 60HRC GH: 63 ~ 66HRC	1.0mm: 51 ~ 53HRC 1.5mm: 41 ~ 45HRC	35 ~ 48HRC	
Hardness Deviation	Max Deviation ± 3.0HRC				
Microstructure	Tempered Martensite or Sorbite		Deformed Pearlite	Deformed Austenitic	
Density	7.4g/cm ³	7.6g/cm ³	7.8g/cm ³	7.8g/cm ³	
SFSA20-66	SAE J827	SAE J1993	YB/T5149-1993	YB/T5150-1993	ISO11124-3
In accordance with standards of SFSA20-66 Cast Steel Abrasive, SAE J827 Cast Steel Shot, SAE J1993 High Carbon Steel Grit, YB/T5149-1993 Cast Steel Shot, YB/T5150-1993 Cast Steel Grit, ISO11124-3 High Carbon Cast Steel Shot and Grit.					

Abrasive life under the same condition, comparison between the abrasion ratio and comprehensive cost

Products	Chilled shot (grit)	Anneal Iron shot	Cast steel shot (grit)	Steel Cut Wire Shot
(HRC) Hardness	55 ~ 64	25 ~ 30	40 ~ 50	41 ~ 53
Ervin life	150	600	2800	3200
Abrasion ratio of throwaway unit	10 ~ 15	1.5 ~ 2.0	1	2 ~ 3
Relative price	1.0	1.0	2.0 ~ 2.5	2.0 ~ 2.5
Overall efficiency	Bad	Moderate	Excellent	Good