

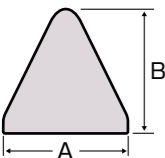
Tipton • Abrasive Media

Plastic media | Wet Type

Plastic media is thermal cured media made of abrasive grits and thermosetting resin.

Benefit

- Mild finishing.
- Suitable for soft metal (especially aluminum & zinc).
- Suitable for finishing hole and corner of un-even surface.
- Light weight, less deformation, change in shape, and impingement.
- Less surface hardening.
- Smooth finishing.

Shape	Application	Item Name	Item Number	Size	Size Tolerance					
					A		B			
C (Corn) 	Heavy Grinding	HZC	30, 20, 15, 10	(A × B mm)	Max.	Min.	Max.	Min.		
	Light Grinding	XVC	40, 30, 20, 15, 10							
	Smoothing	FC	30, 20, 15, 10		40	φ40×40	+2.0	-2.0	+2.0	-2.0
		AC	30, 20, 15, 10, 7, 6, 4		30	φ30×30	+2.0	-2.0	+2.0	-2.0
	Luster Finishing	HAC	30, 20, 15, 10, 7, 6, 4		20	φ20×20	+1.5	-1.5	+1.5	-1.5
	Mirror Finishing	SAC	30, 20, 15, 10, 7, 6, 4		15	φ15×15	+1.5	-1.5	+1.5	-1.5
				10	φ10×10	+1.0	-1.0	+1.0	-1.0	
				7	φ 7× 7	+1.0	-1.0	+1.0	-1.0	
				6	φ 6× 6	+1.0	-1.0	+1.0	-1.0	
				4	φ 4× 4	+0.5	-0.5	+0.5	-0.5	



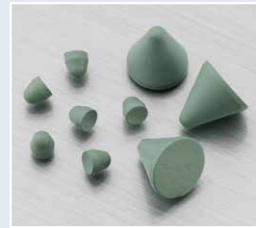
HZC

XVC

FC

AC

HAC

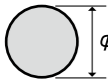


SAC

※Triangular pyramid is available for special shape. Please contact us for more information. ※Package : 20 kg
 ※Only Bullet Shape available for No.6,4.

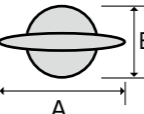
Steel media | Wet Type

Steel media is mostly made of iron or stainless steel. Spherical shape and sputnik shape are available.

Shape	Application	Item Name	Item Number & Size
(Sphere) 	Mirror Finishing	Steel Ball (S.B.)	(φmm) 9.5
			7.9 6.3
			5.5 4.8
			4.0 3.2
			2.4 1.6
			1.2 0.8



Steel Ball

Shape	Application	Item Name	Item Number	Size
(UFO shape) 	Mirror Finishing	Sputnik (SP)	6.00	(A × B mm)
			4.00	6.00 φ5.8×φ4.5
				4.00 φ3.8×φ3.2



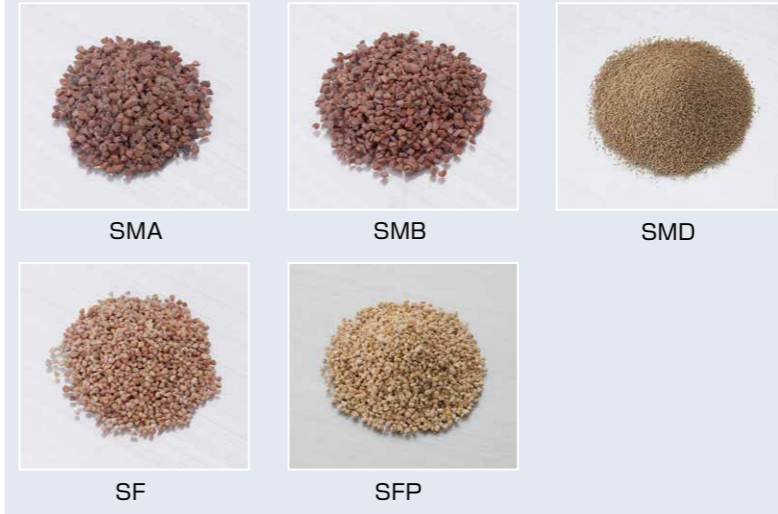
Sputnik

※Please contact us for more information about stainless media.
 ※Please contact us for more information about the packaging of steel media as packaging size is different depending on media size.
 ※Size may be changed without prior notice.
 ※Please contact us for more information about commodity specifications.

Soft media | Dry Type

Soft media is impregnated firmly by abrasive grits such as aluminum oxide, diamond powder, etc, onto a walnut shell or a corn cob (core of corn) with a grease-based coating agent.

Item Name	Abrasive Grits	Material	Workpieces Material	Application
SMA	Aluminum	Walnut	All Metal	Rough (fast) & Medium Finish
SMB	Aluminum	Walnut	All Metal	Mirror Finishing
SMD	Diamond powder	Walnut	Cemented Carbide/High Speed Steel	Super mirror finishing, suitable for drilling
SF	Aluminum	Corn	All Metal	Mirror Finishing & Less Impingement
SFP	Aluminum	Corn	Calcium carbonate	Luster finish for pearl



SMA

SMB

SMD

SF

SFP

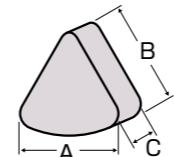
※Please contact us for more information about the size. ※Package : 20 kg
 ※Please contact us for more information about the minimum purchasing amount of Soft media inclusive of additives, because this product is made to order.

Additive for Soft Media

Item Name	Contents
Light 1A	Abrasive Grits for Luster and Mirror Finishing (Center Size 3μm)
Light 2A	Rough (fast) & Medium Finish (Center Size 50μm)
TU Wax	Liquid Oil Coating
Additive for SMD	Additives that are a mixture of diamond powder and oil and fats contents.
Package : Light 1A, Light 2A	20kg
TU Wax	16kg
Additive for SMD	400g λ, 1kg λ

Sahara media | Dry Type

Sahara media is thermal cured media made of abrasive grits and thermosetting resin.

Shape	Application	Item Name	Item Number and Size	Size Tolerance								
T (Original triangle shape ∠90°) 	General Grinding	O8T	(A × B × C mm)	Max.	Min.	Max.	Min.	Max.	Min.			
				15×15×15	+0.5	-2.5	+0.5	-2.5	+1.3	-1.7		
				10×10×10	+0.4	-1.6	+0.4	-1.6	+0.8	-1.2		
				8× 8× 8	+0.6	-1.4	+0.6	-1.4	+0.8	-1.2		
				6× 6× 6	+0.5	-1.5	+0.5	-1.5	+0.8	-1.2		



O8T

※Size may be changed without prior notice.
 ※Please contact us for more information about commodity specifications. ※Package : 20 kg

Plastic beads | Additives

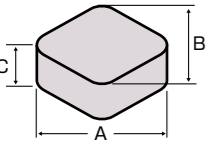
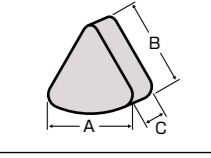
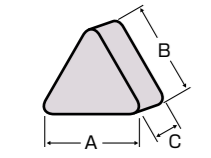
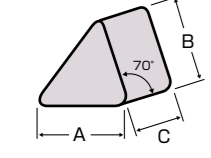
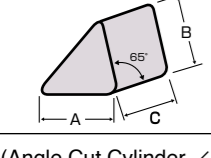
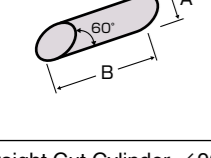
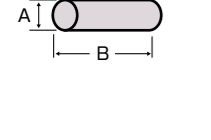
Plastic beads are the additives to help sheet-shaped workpieces not to overlap each other, which will cause uneven finishing.



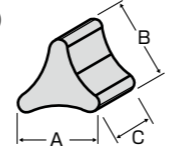
※Package : 20kg

Ceramic media | Wet Type

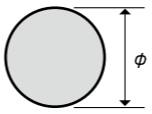
Ceramic media is product which abrasive grits and clay bonding materials are fired and bonded or only clay bonding materials or alumina bonding materials are fired.

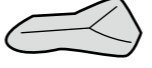
Shape	Application	Item Name	Item Number	Size	Size Tolerance		
					A	B	C
D (Diamond) 	Heavy Grinding	HD	00, 0	(A × B × C mm)	Max.	Min.	Max.
	General Grinding	AD	00	00 55×35×18	+2.0	-1.0	+1.0
				0 45×30×16	+2.0	-1.0	+1.0
	Heavy Grinding	HGD	00, 0	(A × B × C mm)			
	General Grinding	GD	00, 0	00 55×35×24	+3.5	-0.5	+1.5
				0 45×30×20	+2.5	-0.5	+2.0
T (Original triangle shape Triangle ∠90°) 	Heavy Grinding	HT	1, 2, 3, 4	(A × B × C mm)			
	General Grinding	AT	1, 2, 3, 4, 5	1 30×30×14	+2.0	-1.0	+1.0
		AHT	1, 2, 3, 4, 5	2 20×20×12	+2.0	-1.0	+1.0
	Light Grinding	AXT	2, 3, 4, 5	3 15×15×10	+2.0	-1.0	+1.0
	Smoothing	AWT	3, 4, 5	4 10×10× 7	+2.5	-0.5	+1.0
				5 7× 7× 5	+2.0	-0.5	+1.0
T (Straight Cut Triangle ∠90°) 	Heavy Grinding*	GUT	1, 2, 3, 4, 5	(A × B × C mm)			
	Heavy Grinding*	HVT	1, 2, 3, 4, 5	1 30×30×20	+1.5	-1.5	+2.0
	Light Grinding	MGT	1, 2, 3, 4, 5	2 22×22×16	+1.5	-1.5	+1.0
				3 16×16×12	+1.5	-1.5	+1.0
				4 10×10× 8	+1.5	-1.0	+1.5
				5 6× 6× 6	+0.5	-0.5	+0.5
	Luster Finishing	WT	13×9 10×7 6×5 4×4	(A × B × C mm)			
				13×9 13×13× 9	+2.5	-0.5	+4.5
				10×7 10×10× 7	+2.5	-0.5	+2.0
				6×5 6× 6× 5	+1.5	-0.5	+2.0
				4×4 4× 4× 4	+1.5	-0.5	+2.0
	T (Angle Cut Triangle ∠70°) 	General Grinding	GOT	1, 2, 3, 4, 5, 6, 7	(A × B × C mm)		
Light Grinding		GXT	1, 2, 3, 4	1 30×30×20	+1.5	-1.5	+2.0
				2 22×22×16	+1.5	-1.5	+1.0
				3 16×16×12	+1.5	-1.5	+1.0
				4 10×10× 8	+1.5	-1.0	+1.5
				5 6× 6× 6	+0.5	-0.5	+0.5
				6 4× 4× 4	+0.5	-0.5	+1.0
				7 3× 3× 3	+0.5	-0.5	+1.5
*Only Straight Cut available for No.5, 6, 7.							
T (Angle Cut Triangle ∠65°) 	Luster Finishing	WT	6×6 Angle Cut	(A × B × C mm)			
				6 × 6 Angle Cut 6× 6× 6	+1.5	-0.5	+2.5
RP (Angle Cut Cylinder ∠60°) 	Heavy Grinding*	GURP	2, 3, 4, 5	(A × B mm)			
	Heavy Grinding*	HVRP	2, 3, 4, 5	2 φ20×30	+1.0	-0.5	+2.0
	General Grinding	ARP	2, 3, 4, 5	3 φ15×20	+1.0	-0.5	+2.0
	General Grinding	GORP	2, 3, 4, 5	4 φ10×15	+0.5	-0.5	+1.0
	Light Grinding	GXRP	2, 3, 4, 5	5 φ 6×11	+0.5	-0.5	+1.0
	Luster Finishing	CRP	4, 5				
(Straight Cut Cylinder ∠90°) 	Luster Precise Finishing	HPR	6F, 5F, 4F, 3F, 2F	(A × B mm)			
				6F φ4.7×14.0	+0.2	-0.1	+0.4
				5F φ3.6×10.0	+0.2	-0.1	+0.3
				4F φ2.1× 8.0	+0.2	-0.1	+0.3
				3F φ1.8× 5.2	+0.2	-0.1	+0.1
				2F φ1.4× 2.7	+0.2	-0.1	+0.1

*GU: TOP Grinding Power HV: More grinding. Less wear

Shape	Application	Item Name	Item Number	Size			Size Tolerance		
				A	B	C	Max.	Min.	Max.
A (Star) 	Micro Finishing	EXA	5.0, 4.0, 3.0, 2.0	(A × B × C mm)			+0.4	-0.4	+0.4
	Luster Finishing	EWA	5.0, 4.0, 3.0, 2.0	5.0	5.0× 5.0× 5.0	+0.4	-0.4	+0.4	
				4.0	4.0× 4.0× 4.0	+0.4	-0.4	+0.4	
				3.0	3.0× 3.0× 3.0	+0.4	-0.4	+0.4	
			2.0	2.0× 2.0× 2.0	+0.4	-0.4	+0.4		

*Purchasing options package for EXA / EWA:5kg

Shape	Application	Item Name	Item Number	Size	
				(φ mm)	
S (Sphere) 	Heavy Grinding	HS	20, 15, 10, 6, 5, 4, 3, 2	20	15.0~20.0
	General Grinding	AS	20, 15A, 10, 6, 5, 4, 3, 2	15	10.0~15.0
	Light Grinding	AXS	20, 15, 10, 6, 5, 4, 3, 2	15A	13.0~15.0
				10	7.0~10.0
				6	5.0~ 7.0
				5	4.0~ 5.0
				4	3.0~ 4.0
				3	2.5~ 3.0
				2	2.0~ 2.5
	General Grinding	HBS	10, 8, 6, 5, 4, 3, 2, 1	(φ mm)	
	Micro Finishing · Luster Finishing	PS	12, 10, 8, 6, 5, 4, 3, 2, 1	12	11.0~13.0
	Luster Finishing	HCS	10, 8, 6, 5, 4, 3, 2, 1	10	9.0~11.0
Luster Finishing	CS	12, 10, 8, 6, 5, 4, 3, 2, 1	8	7.0~ 9.0	
			6	5.5~ 6.5	
			5	4.5~ 5.5	
			4	3.5~ 4.5	
			3	2.5~ 3.5	
			2	1.5~ 2.5	
			1	0.5~ 1.5	
Luster Finishing	WS	5, 4, 3, 2, 1, 0.5	(φ mm)		
			5	4.3~ 5.7	
			4	3.3~ 4.7	
			3	2.5~ 3.5	
			2	1.5~ 2.5	
			1	0.7~ 1.3	
			0.5	0.2~ 0.8	

Shape	Application	Product Name	Product Number	Upper limit sieve	Lower limit sieve	Distribution rate	Short Diameter Range	Distribution Rate	Major Diameter Range	Distribution Rate	Long Diameter Range	Distribution Rate		
													P (Random Shape) 	Heavy Grinding
8	-	-	-	2.7>	Less than 5%	2.7~6.4	More than 85%	6.4<	More than 10%					
10	-	-	-	1.8>	Less than 5%	1.8~4.1	More than 85%	4.1<	More than 10%					
12	-	-	-	1.3>	Less than 5%	1.3~3.3	More than 85%	3.3<	More than 10%					
6	-	-	-	3.5>	Less than 5%	3.5~8.2	More than 85%	8.2<	More than 10%					
8	-	-	-	2.4>	Less than 5%	2.4~5.9	More than 85%	5.9<	More than 10%					
Micro Finishing · Luster Finishing	3P-N	10	-	-	-	1.8>	Less than 5%	1.8~4.3	More than 85%	4.3<	More than 10%			
		12	-	-	-	1.3>	Less than 5%	1.3~3.4	More than 85%	3.4<	More than 10%			
		16	2.00	1.00	More than 90%	-	-	-	-	-				
		20	1.70	0.71	More than 90%	-	-	-	-					
		Luster Finishing	CP	6	-	-	-	3.5>	Less than 5%	3.5~8.6	More than 85%	8.6<		More than 10%
				8	-	-	-	2.7>	Less than 5%	2.7~6.2	More than 85%	6.2<		More than 10%
10	-			-	-	1.8>	Less than 5%	1.8~5.4	More than 85%	5.4<	More than 10%			
			12	-	-	-	1.3>	Less than 5%	1.3~4.0	More than 85%	4.0<	More than 10%		

*Size may be changed without prior notice. Please contact us for more information about the order amount because some products are built to order.
 *Size shows actual figures based on internal inspection criteria.
 *Please ask our sales staff about the abrasive media specification as needed. *Package : 20 kg

Abrasive media selection and order pattern utilizing catalogue

Selecting example

Please select each item of ① "Application", ② "Shape", ③ "Size" and ④ "Quantity".

① "Application"
 Please select from heavy grinding, general grinding, light grinding, smooth finishing, micro finishing, and luster finishing according to the finishing purpose.

② "Shape"
 Please select from D (diamond), T (triangle), RP (cylindrical), S (spherical), P (random shape), A (star) according to the workpiece portion to finish and the finishing conditions.

③ "Size"
 Please select the size according to the workpiece portion to finish and shape of the work piece (hole size if there is a hole), sorting condition, etc.

④ "Quantity"
 It is a unit based on the packing quantity. Please decide the box quantity.

Order example
 In case of ordering abrasive media with the application by Heavy grinding, shape by Spherical (S), size by 2.5-3.0, quantity by 20 kg, please order for "HS-3 20kg or "HS-3 1 box".

ELV · RoHS Restriction of Hazardous Substances

Our abrasive media does not intentionally include the environmentally hazardous substances that meet the ELV / RoHS Directive.

Heavy Grinding



HD



HT



HS



HP



GUT



HVT



HGD



GURP



HVRP

Light Grinding



AXT



AXS



MGT



GXT



GGRP

Smoothing



AWT

Micro Grinding



EXA

General Grinding



AD



AT



ARP



AS



GD



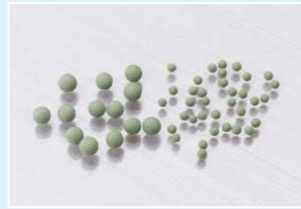
GOT



GORP



AHT



HBS

Micro Grinding · Luster Finishing



PS



3P-N

Luster Finishing



WT(Straight)



WT(Angle)



WS



HPR



HCS



EWA



CRP



CS



CP