

SHINIL
www.shinilglobal.com

Shinil is a global company that supplies
high-quality metal scrubber and kitchen
sponge for dish washing

Dear Customers,

Shinil is a specializing company that has manufactured only special steel, stainless steel scourers and kitchen cleaners since its establishment in 1977.

In particular, we are making our utmost effort to develop and supply the products subdividing per each country and region, keeping up with the global era.

We recently increase the investment to R&D to introduce the products manufactured in accordance with the concept of nature, human-beings and environment to our customers.

We are proud of the fact that half of our customers have been doing the business with us more than 14 years.

We think that it is not possible without the absolute mutual trust.

We suppose that the driving forces of the long-term business with our partners are consistent quality control and thorough after-sale service.

We already possess the certification of ISO2004-9001, BSCI, SGS and are preparing the other certificates.

We have acquired the certification in order to provide our customers with greater trust and the customers can rely on our products and sell them to consumers.

Our business experiences and production know-how during last 40 years in Korea and China will provide you with the opportunity of your new choice.

Would you mind knocking the doors of new business exploitation with us?

Our business slogan is "We would neither think nor make the goods that our family will not choose and use."

We continuously will make the effort so that your clients will use the safest products most comfortably at your kitchen.

Thank you.

Director Yeong Uk Han

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Metal



Sponge



History of Shinil

- 2017** | The 40th anniversary of the founding
The 23rd anniversary of the establishment of the factory in China
Acquired SGS certification
- 2016** | Advisory committee of KOTRA, and KOREA INTERNATIONAL TRADE ASSOCIATION.
Participated in exhibitions (Las Vegas in U.S.A. Mega Show in Hong Kong, HoChiMinh in Vietnam)
Being appointed as the business supported by the Small and Medium Business Administration
Being appointed as a consultative company of KOTRA, Korea International Trade Association and Incheon International Airport
Expanded the first factory in China
- 2015** | Selected as an official trade delegation of president 3 times
Established its business office in Sao Luis Brazil
We registered in U.S government (S.A.M)
We registered in NATO CAGE CODE
Participated in exhibitions (HoChiMinh in Vietnam, Japan Tokyo)
- 2013** | Established its Korea international trade association office (Korea world trade center)
Established its branch office in Guangdong China [Korea Trade – Investment Promotion Agency]
Renewal factory in Guangzhou, China
- 2012** | Acquired BSCI and ISO 9001 (From SHINIL Foshan factory)
- 2010** | Acquired ISO 9001 and ISO 14001 Certified (From SHINIL KOREA factory)
- 2003** | Relocated its factory to Yeongi-gun Chuncheongnam-do
- 1994** | Established Mengyn Factory in Shandong China and started manufacturing, its products
- 1982** | Started stainless steel casting business and manufacturing and exporting its products to the Americans
- 1981** | Registered as a supplier and started supplying its products to Defense Procurement Agency
Enlarged and relocated its factory to Pangyo Gyeonggi-do
- 1977** | Established as Shinil Corporation in Seoul (Production Item : STAINLESS STEEL WIRES)

Certification



Brand of Shinil



HIBRILL (High Quality Brand)

- High quality brand of Shinil
- High + Brilliant
- It has the meaning of, with Shinil's high quality products, it will make our environment more beautiful and clean.
- Our main goal and purpose is to manufacture the products that customers can use easily, and to provide safe products to every households.



MOM CLEAN (Normal Brand)

- We expressed it in the form of word mark using generally Green color.
- The letter M is sharply expressed in order to show the feeling of steel wire, and we emphasize "MOM CLEAN" of Shinil Co., Ltd. that is concerned with nature and environment,
- Naturally combining the streamlined shape in front of the letter "M" with a leaf.
- Gothic fonts are used to express our rigid and durable products.



METAL SCOURER

Features

1. They don't rust (except Coated copper mesh, and Galvanized mesh) and can be used for long period of time, while keeping its original shape for a long time.
2. They can be easily rinse out, and dry.
3. Specially designed scourers will cut through stubborn grease, and grime. Also they are strong and flexible to use on ovens, grills, pots, pans, tiles and etc. very effectively.
4. Spiral design prevents injury to the hands.
5. Copper and Brass scourers has self anti-bacterial effect.
6. For Mesh products, they are highly recommended to use for BBQ racks or tough stains.
7. Wide variety packing methods and customization of the package types are available for this product, so that customers can select the right package types according to the channels and markets they are focusing.

STAINLESS STEEL



Weight(g)	10g~100g
Color	Silver
Wire Diameter	1) AISI 304 : 0.08~0.23mm 2) AISI 410, AISI 430 : 0.13~0.23mm
Material	AISI410, AISI430, AISI304

BRASS



Weight(g)	13g~100g
Color	Gold
Wire Diameter	0.15~0.23mm
Material	Copper 65%, Zinc 35%

COPPER MESH



Weight(g)	15g~100g
Color	Reddish Orange
Wire Diameter	0.22~0.25mm
Material	100% Copper

COATED COPPER MESH



Weight(g)	12g~100g
Color	Bright Reddish Orange
Wire Diameter	0.18~0.22mm
Material	Steel and Copper

GALVANIZED MESH



Weight(g)	12g~100g
Color	Silver
Wire Diameter	0.19~0.23mm
Material	Steel and Zinc

WITH HANDLE



Weight(g)	20g~30g
Wire Diameter	0.18~0.22mm
Material	Copper, Coated Copper Galvanized wire

• STEEL WOOL



1. Also, known as wire wool or wire sponges.
2. It is a bundle of strands of very fine soft steel filaments.
3. It is used as an abrasive in finishing and repair work for polishing wood or metal objects, cleaning household cookware and sanding in light painting.

Grade	Thickness
#0000	super fine
#000	extra fine
#00	very fine
#0	fine

#1	medium
#2	coarse
#3	very coarse
#4	extra coarse
#5	super coarse



KITCHEN CLEANING SPONGE

Features

1. You can effectively clean all cooking wares you are using without a scratch.
2. Environment friendly, since the product needs small amount of detergent as it works up a plenty of foam.
3. Depending on the cleaning applications, various selections are available.
4. Some products are designed to grasp easily.
5. We provide customers with broader selections of product in various shapes and materials depending on target prices, packing methods, and etc.
6. Scrubbers are also available in various colors upon request, and it will make the kitchen brighter.
7. Anti-bacterial is available by client request.

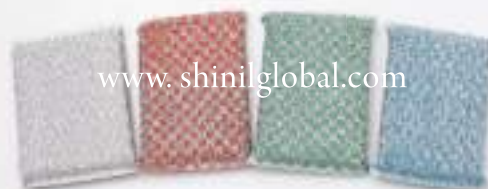
SPF-1



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Size(cm)	12x8.5x1.5
Material	Polyurethan, Polyester

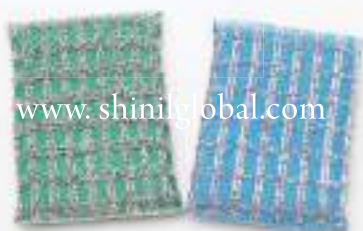
SPF-2A



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Size(cm)	12x8.5x1.5
Material	Polyurethan, Polyester

SPF-2B



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Size(cm)	12x8.5x1.5
Material	Polyurethan, Polyester

SPF-2C



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Size(cm)	12x8.5x1.5
Material	Polyurethan, Polyester

SPF-3



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Size(cm)	13X9X1.5
Material	Polyurethan, Polyester

SPF-4



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Size(cm)	12x9x1.5
Material	Polyurethan, Polyester

SPF-5A



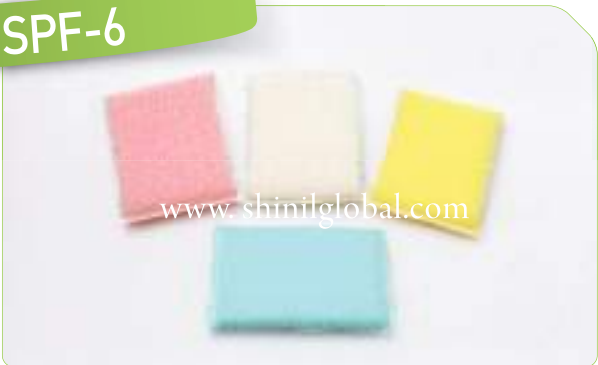
Size(cm)	12.5x9x2
Material	Polyurethan, Polyester

SPF-5B



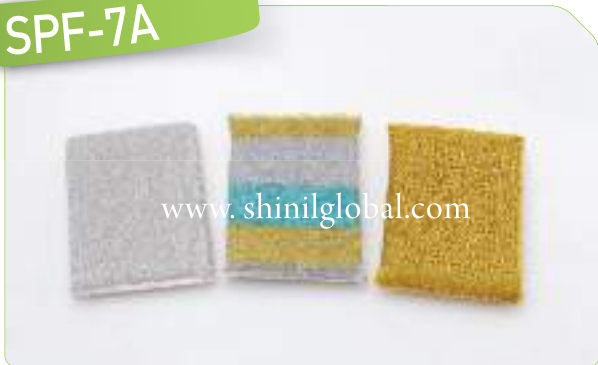
Size(cm)	13x7.5x3
Material	Polyurethan, Polyester

SPF-6



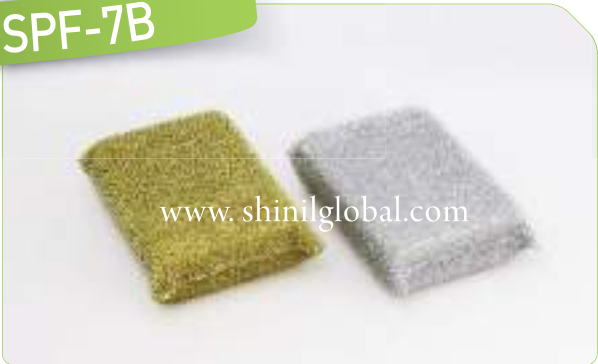
Size(cm)	12x9x2
Material	Polyurethan, Polyester

SPF-7A



Size(cm)	12.5x9x2
Material	Polyurethan, Polyester

SPF-7B



Size(cm)	13x7.5x3
Material	Polyurethan, Polyester

SPF-8



Size(cm)	12.5x9x1.5
Material	Polyurethan, Polyester

SPF-9


Size(cm)	12.5x9x1.5
Material	Polyurethane, Polyester with microfiber

SPF-10K


Size(cm)	11.5x7x2.5
Material	Polyurethane, Polyester and Acrylic

SPF-10KR


Size(cm)	12.5x6x2.5
Material	Polyurethane, Polyester and Acrylic

SPF-11K


Size(cm)	12x8x15
Material	Polyurethane, Polyester and Acrylic

SPF-12


Size(cm)	11.5x7x2.5
Material	Polyurethane, Polyester

SPF-13


Size(cm)	16x12
Material	Polyester

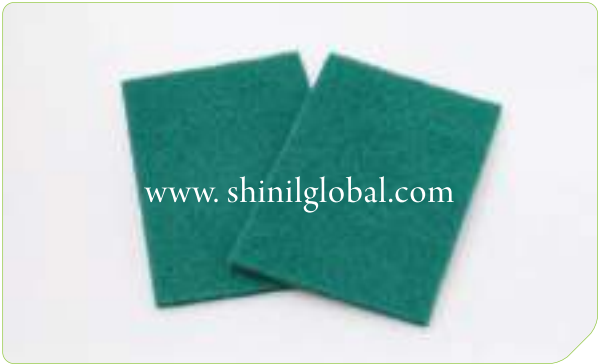
SPF-14


Size(cm)	10.5x8.5x2
Material	Polyurethane, Polyester with microfiber

SNF-1


Size(cm)	13x9.5x1.5
Material	Polyurethane, Polyester, Nylon, Stainless steel wire

• NON-WOVEN SCOURING PAD



Size(cm)	Item : 10x15x0.7cm
	Roll : 1mx50mx0.7cm (20FT FCL 50rolls)
Material	Nylon 100%
	Polyester 100%
	Nylon + Polyester

There are three types of Scouring pads.
Heavy, Medium and Light duty, from which customers can select one best suit the places it is to be used.

Quality	Description
Light Duty	No abrasives. Gentle for ceramic and porcelain. Ideal for non-stick and delicate surfaces. Scratch-free cleaning glass, pans, stainless steel, china and ceramic
Medium Duty	Made of non-woven fiber impregnated with small amount of abrasive. For daily common cleaning of cooking utensils, furniture tops, metal surfaces, walls, stairways, and floors. Super value.
Heavy Duty	Made of non-woven fibers impregnated with more abrasive grain. High performance and long lasting pads. Quickly removes stubborn dirt and grime from kitchen and household cleaning.



NON-WOVEN KITCHEN SPONGE

Features

1. It contains an abrasive component in Nylon or Polyester, it facilitates to remove stains stuck in the kitchen wares effectively.
2. The nylon material is sturdy enough to handle the most stubborn stains while being safe enough to use on non-stick surfaces.
3. Sponge will work up a lot of foam, and may keep its original shape unchanged even after using.
4. Some products are designed to grasp easily.

SSG-1



Size(cm)	Fish : 14×6.5×2.5, Rectangle : 12×6.5×4
Material	Polyurethane with Nylon or Polyester or mixed

SSG-2



Size(cm)	9×7×4.3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-3



Size(cm)	12×6.5×2
Material	Polyurethane with Nylon or Polyester or mixed

SSG-4



Size(cm)	11×7(5.8)×3.2
Material	Polyurethane with Nylon or Polyester or mixed

SSG-5



Size(cm)	11×7.5×3.5
Material	Polyurethane with Nylon or Polyester or mixed

SSG-6



Size(cm)	10.5×6.5×3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-7



Size(cm)	10.5×6.5×4
Material	Polyurethane with Nylon or Polyester or mixed

SSG-8



Size(cm)	11×7×3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-9



Size(cm)	11×7×3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-10



Size(cm)	10.5×6.5×4
Material	Polyurethane with Nylon or Polyester or mixed

SSG-11



Size(cm)	11×7×3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-12C



Size(cm)	11×7×3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-12F



Size(cm)	11x7x3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-13



Size(cm)	11x7x2.5
Material	Polyurethane with Nylon or Polyester or mixed

SSG-14



Size(cm)	9x7x4.5
Material	Polyurethane with Nylon or Polyester or mixed

SSG-15P



Size(cm)	12.5x7.5x3
Material	Polyurethane with Nylon or Polyester or mixed

SSG-15S



Size(cm)	11.5X7X2
Material	Polyurethane with Nylon or Polyester or mixed

SSG-16



Size(cm)	7.2x4.5
Material	Polyurethane with Nylon or Polyester or mixed



CELLULOSE SPONGE

Features

1. Made of natural-pulp, so it is environment friendly.
2. They are good for cleaning soft tableware, as it works up a lot of foam.
3. They are good in absorbing moisture especially, and it is recommended to use for removal of the moisture from the tableware after cleaning.
4. They are ideal for cleaning ceramic wares, kitchen, bathroom, worktops tables, walls, pots, frying pans, and etc.
5. Some products are designed to grasp easily.
6. In order to use more hygienically, sterilize it in boiling water. (SCL-6S & SCL-6R)



Size(cm)	11x8x2
Material	Polyester or Nylon with Cellulose



Size(cm)	11x8x1.5
Material	Polyester or Nylon with Cellulose



Size(cm)	12x8x2
Material	Polyester with Cellulose



Size(cm)	11x7x2
Material	Polyester with Cellulose



Size(cm)	10x6x3.8
Material	Polyurethane, Cellulose with Nylon or Polyester



Size(cm)	20x18x0.4
Material	Cellulose

SCL-6S


Size(cm)	11x8x2
Material	Cellulose

SCL-6R


Size(cm)	11x8x2
Material	Cellulose

SCL-7


Size(cm)	11x7x2
Material	Polyurethane with Cellulose

SCL-8


Size(cm)	12.1x7.1x2
Material	Polyurethane or Polyester with Cellulose

SCL-9

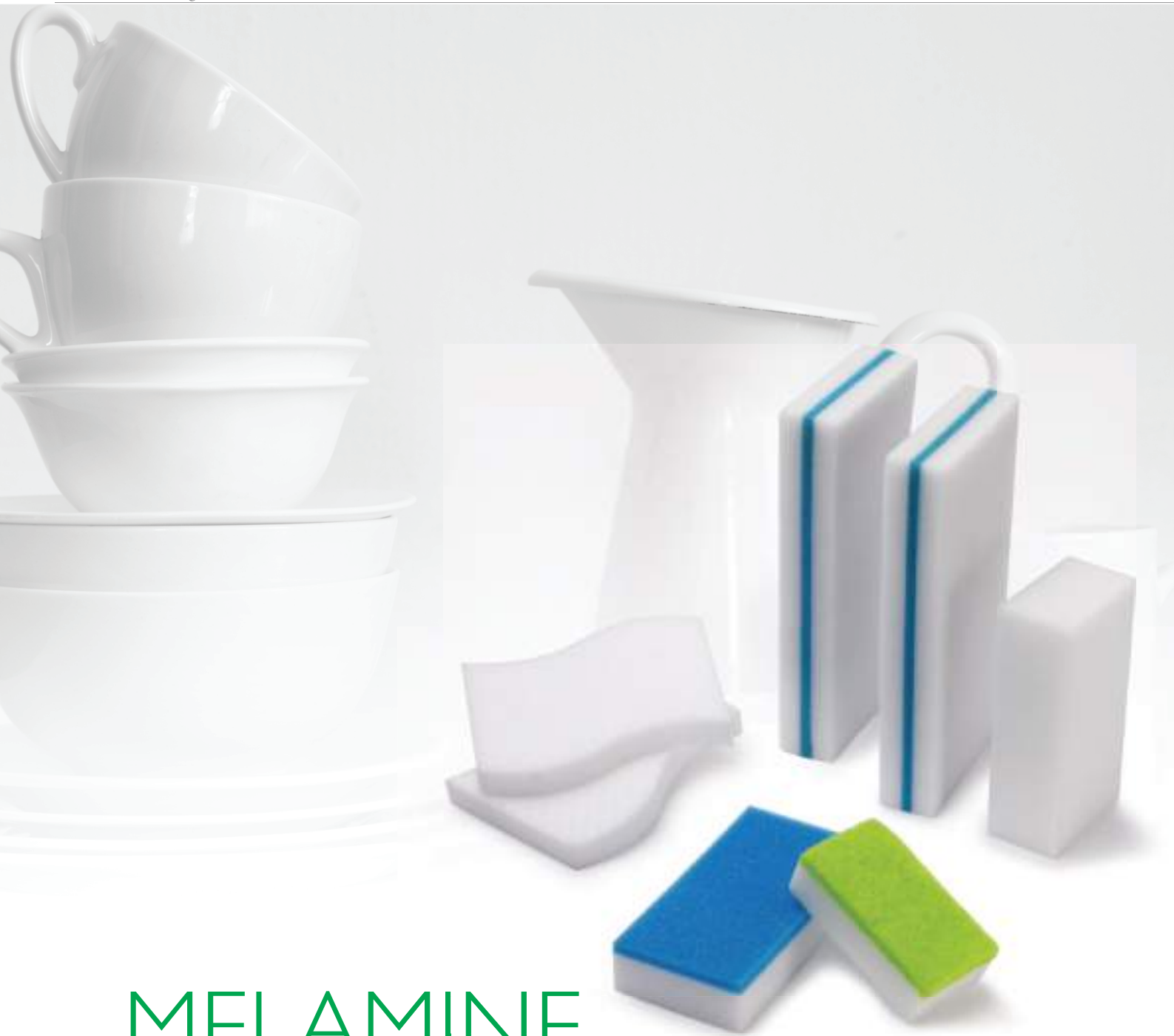

Size(cm)	10.2x8x2
Material	Polyester with Cellulose

SCL-10


Size(cm)	10.5x8x2
Material	Polyester with Cellulose

SCL-11


Size(cm)	12.5x6.5x2
Material	Polyester with Cellulose



MELAMINE (MAGIC ERASER)

Features

1. Powerful multi-purpose Cleaning with Water Alone
2. Water Activated Microscrubbers lift and remove dirt around your home
3. Great for multi-purpose cleaning on car windshield glass, leather athletic shoes, walls, doors, baseboards, glass table tops and more
4. Magic sponge eraser just water gently wipe can clean the stains
5. No harsh chemicals added.
6. Breaks up tough bathroom soap scum.
7. Cleans scruff marks and dirt from walls, floors and doors.
8. Removes set-in dirt on stoves, refrigerators and other appliances.
9. Very eco-friendly product

SMN-1


Size(cm)	10x7x3
Material	Melamine

SMN-2


Size(cm)	10x7x3
Material	Polyurethane with Melamine

SMN-3


Size(cm)	10x7x3
Material	Nylon or Polyester with Melamine

SMN-4


Size(cm)	10x7x3
Material	Polyurethane with Melamine

SMN-5


Size(cm)	12x8x1.5
Material	Compressed Melamine



MICROFIBER

Features

1. Microfiber contains 90,000 fibers per square inch, so giving it the power to lift and hold dust, dirt, grease and spills.
2. They can clean with or without chemical cleaners, leaving lint-free, and streak-free results.
3. Non-abrasive: They will not scratch paints, clear coats, or other surfaces.
4. They absorb eight times its own weight in liquid and can be dry in half the time as regular cotton towel.
5. Ultra-fine densely bundled microscopic fibers from a cleaning surface 40 times greater than regular cotton fiber to remove substantially more dust, dirt, and bacteria than conventional cleaning products.

SMF-1



Size(cm)	13x8x3
Material	Polyurethane, Polyamide and Polyester

SMF-2(TERRY)



Size(cm)	40x40
Material	Polyamide and Polyester

SMF-3(SUEDE)



Size(cm)	40x40
Material	Polyamide and Polyester

SMF-4(TRICOT)



Size(cm)	40x40
Material	Polyamide and Polyester

SMF-5



Size(cm)	13x10x1.5
Material	Polyurethane, Polyamide and Polyester

OTHER

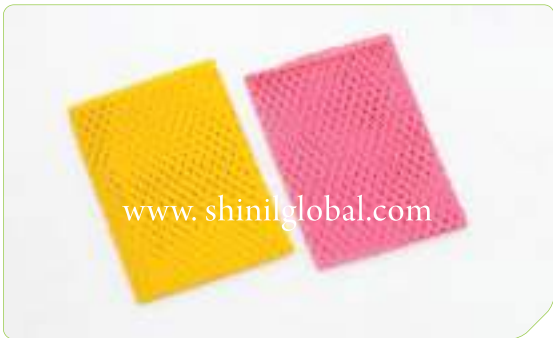
.NON-WOVEN CLOTH(SNW)



- 1. NON-WOVEN CLOTH can be used as a pot holder, dish cloth, wash cloth, and more.
- 2. It is very effective for removal of oil and stain.
- 3. Very good water absorption, and eco-friendly. It can work without washing detergent when the oil is light.
- 4. It is lint-free after cleaning.
- 5. It does not damage the surface of the articles.

Size(cm)	38×40
Material	Viscose, Polyester

.NET KITCHEN SCOURER (SNT)



- 1. They do not rust since they are made of plastic.
- 2. They dry out fast.
- 3. It is effective to clean away the stubborn stains.
- 4. You can easily clean and rinse the products since the food debris does not stick on the Net.
- 5. It is designed to grasp easily, and not easily slip from hand.
- 6. Since the materials are plastic, there are less chance of bacterial living in, so it is more hygienic.

Size(cm)	30×30
Material	Polyester

.PLASTIC NET MESH SCOURER (SPN)



- 1. They do not rust since they are made of plastic.
- 2. They dry out fast.
- 3. It is effective to clean away the stubborn stains.
- 4. You can easily clean and rinse the products since the food debris does not stick on the Net.
- 5. It is designed to grasp easily, and not easily slip from hand.
- 6. Since the materials are plastic, there are less chance of bacterial living in, so it is more hygienic.

Weight(gr)	7~18
Material	Polyester



SEMI-PRODUCT

Features

1. This is a semi-finished product.
2. This product is widely used in cleaning dishware.
3. We can manufacture and supply with different colors, sizes, specifications, patterns, and etc. according to customer's requests.
4. We use best fills and strings, so it is more durable, and after manufacturing
5. SNFK-1 does proper heat-treatments to the products in order to reduce the sheets from rolling up.

SPFF-1



Material	PP (40%) / Polyester (60%)
Size	Weight : approx.1kg/roll Length : approx.27m/roll Width : approx.8.5cm

SPFF-2



Material	PP (45%) / Polyester (55%)
Size	Weight : approx.1kg/roll Length : approx.18m/roll Width : approx.8.5cm

SPFF-3



Material	PP (30% PET) / Polyester (70%)
Size	Weight : approx.1kg/roll Length : approx.28m/roll Width : approx.8.5cm

SPFF-4



Material	PP (30% PET) / Polyester (70%)
Size	Weight : approx.1kg/roll Length : approx.20m/roll Width : approx.8.5cm

SPFF-5



Material	PP (35%) / Polyester (65%)
Size	Weight : approx.1kg/roll Length : approx.31m/roll Width : approx.8.5cm

SPFF-6



Material	PP (40%) / Polyester (60%)
Size	Weight : approx.1kg/roll Length : approx.31m/roll Width : approx.8.5cm

SPFF-7



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Material	PP (45%) / Polyester (55%)
Size	Weight : approx.1kg/roll Length : approx.32m/roll Width : approx.8.5cm

SPFF-8



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Material	PP (47%) / Polyester (53%)
Size	Weight : approx.1kg/roll Length : approx.27m/roll Width : approx.8.5cm

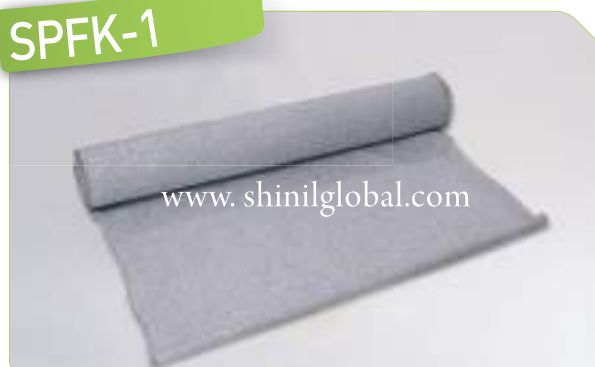
SNFF-1



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Material	PP (45%) / Stainless steel(55%)
Size	Weight : approx.1.7kg/roll Length : approx.30m/roll Width : approx.8.5cm

SPFK-1



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Material	PP (40%) / Polyester (60%)
Size	Weight : approx.8.45kg/roll Length : approx.53yd/roll Width : approx.1m

SPFK-2



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Material	Yarn (40%) Film (60%)
Size	Weight : approx.5.9kg/roll Length : approx.250yd/roll Width : approx.21cm



WIRE

Features

1. With 40 years of experience in wires, we were able to have our own skills and know-how of the products.
2. With our state-of-arts lines, we are able to do the proper heat-treatments, and drawings, so our wire's thickness is even and color is bright.
3. We put extra efforts in the spooling process to provide better quality to our customers. (We try to keep less than 2 disconnection wires).
4. We do not use recycled bobbins.
5. We do our best to meet the various thickness, strength, and other details that customer request.
6. We use real-name system of producers, in order for better quality control and taking responsibility of our products.

STAINLESS WIRE

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Thickness	1) AISI 304 : 0.04~0.7mm 2) AISI 410, AISI 430 : 0.125~0.7mm
Material	AISI 410, AISI 430, AISI 304
Weight	15Kg / Bobbin
Packaging	2 Bobbins / CTN

BRASS WIRE

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Thickness	0.15~0.80mm
Material	Copper 65%, Zinc 35%
Weight	15Kg / Bobbin
Packaging	2 Bobbins / CTN

COPPER WIRE

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Thickness	1) Copper : 0.20~0.80mm 2) Coated Copper : 0.125~0.80mm
Material	100% copper or steel with copper coating
Weight	15Kg / Bobbin
Packaging	2 Bobbins / CTN

GALVANIZED WIRE

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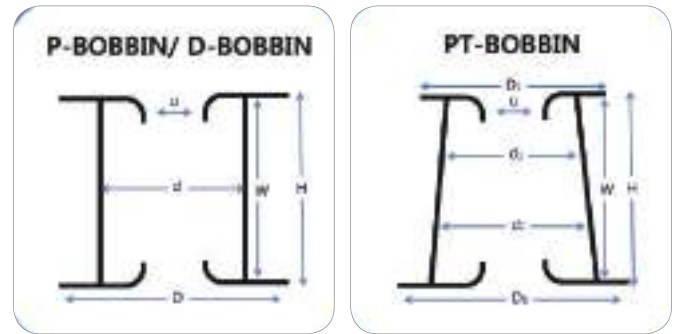
Thickness	0.125~0.80mm
Material	Steel with Zinc Coating
Weight	15Kg / Bobbin
Packaging	2 Bobbins / CTN

FLAT WIRE

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Thickness	Before rolling : 0.09mm After rolling : 0.03mm
Material	AISI 410, AISI 430
Weight	1.5Kg / Bobbin
Packaging	6Bobbin / Inner carton 4Inner carton / Outer carton

BOBBIN TYPE AND SIZE



General Bobbin(P)

Spool No.	Flange Diameter(D)	Barrel Diameter(d)	Inside Width(W)	Height(H)	Bore Diameter(u)
Solder (1kg)	65	23	58	66	19
P-1	100	50	70	90	20
P-2	130	80	90	110	21
P-3	130	60	90	110	21
P-4	160	90	90	114	21
P-4B	160	95	90	104	17
P-5	160	70	90	114	22
P-10	200	91	110	132	25
P-20	250	110	110	139	34
P-25	300	130	130	160	32
P-25L	300	180	170	200	100

Long Traverse Taper Bobbin(PT)

Spool No.	Flange Diameter(D1,D2)	Barrel Diameter(d1,d2)	Inside Width(W)	Height(H)	Bore Diameter(u)
PT-1	95, 105	54, 58	100	118	20
PT-4	124, 140	74, 86	170	200	26
PT-10	160, 180	96, 110	200	230	29
PT-15	180, 200	96, 110	200	230	30
PT-20	215, 230	131, 160	250	280	32
PT-25	215, 230	110, 150	250	280	32
PT-60	270, 298	148, 175	350	400	44
Small bobbin	70	45	52	62	18

Din Bobbin(D)

Spool No.	Flange Diameter(D)	Barrel Diameter(d)	Inside Width(W)	Height(H)	Bore Diameter(u)
D-80	80	50	64	80	16
D-100	100	63	80	100	16
D-125	125	80	100	125	16
D-160	160	100	127	160	22
D-200	200	125	160	200	22
D-250	250	160	160	200	22
D-355	355	224	160	200	36
SF	300	210	90	100	85
P.S	149	45	161	184	12
PL-3	120	75	129	149	20
P.L-3G	65	45	75	85	16
S.M	110	88	19	25	9

STAINLESS WIRE COMPOSITION



Specification				Chemical Composition[%]										
	AISI	JIS	KRS	C	SI	MN	P	S	NI	CR	MO	CU	N	OTHER
A U S T E N I T I C	-	-	201	0.08	1	7-10	0.045	0.03	3.5-5.5	13-16	-	-	0.1-0.2	-
	202	130M	130M	0.15	1	7.5-10	0.06	0.03	3.5-5.5	17-19	-	-	0.25	-
	-	-	202	0.12	1	8-10	0.45	0.03	4-6	17-19	-	-	0.2-0.35	-
	-	-	204	0.15	1	12-15	0.06	0.03	1.5-3.5	12-15	-	1.5-3.5	-	-
	301	301	301	0.15	1	2	0.045	0.03	6-8	16-18	-	-	0.1	-
	-	-	304ES	0.08	1	3.5	0.045	0.03	6-8	15-17	-	-	-	-
	302	302	302	0.15	1	2	0.045	0.03	8-10	17-19	-	-	-	-
	303	303	303F	0.15	1	2	0.2	≥0.15	8-10	17-19	-	-	-	-
	-	303CU	303CU	0.15	1	3	0.2	≥0.15	8-10	17-19	-	1.5-3.5	-	-
	-	-	304	0.08	1	2	0.045	0.03	8-11	18-20	-	-	-	-
	304	304	304H	0.06-.1	1	2	0.045	0.03	8-10.5	18-20	-	-	-	-
		304M	0.08	1	2	0.045	0.03	9-10.5	18-20	-	-	0.1	-	-
	304L	-	304L	0.03	1	2	0.045	0.03	8-12	18-20	-	-	-	-
	-	304L	304L	0.08	1	2	0.045	0.03	9-13	18-20	-	-	-	-
	-	-	304S	0.03	1	2	0.045	0.03	10-12	18-20	-	-	-	-
	-	304N1	304N1	0.08	1	2-3	0.045	0.03	7-10.5	18-20	-	-	0.1-0.25	-
	-	304J3	304HC	0.08	1	2	0.045	0.03	8-10	18-20	-	-	0.1-0.2	-
	-	-	304M4	0.08	1	2.5-3	0.045	0.03	8-10	18-20	-	-	0.1-0.2	-
	XM7	-	304CU	0.1	1	2	0.045	0.03	8-10	17-19	-	3-4	-	-
	-	XM7	302HQ	0.08	1	2	0.045	0.03	8.5-10.5	17-19	-	3.4	-	-
	310S	310S	310S	0.08	1.5	2	0.045	0.03	19-22	24-26	-	-	-	-
	314	-	314	0.25	1.5-3	2	0.045	0.03	19-22	23-26	-	-	-	-
	316	316	316	0.08	1	2	0.045	0.03	10-14	16-18	2-3	-	-	-
	316L	-	316L	0.03	1	2	0.045	0.03	10-14	16-18	2-3	-	-	-
	316L	316L	0.03	1	2	0.045	0.03	12-15	16-18	2-3	-	-	-	-
	-	316CU	0.04	1	2	0.045	0.03	10-14	16-18	2-3	-	-	-	-
	316N	-	316N	0.08	1	2	0.045	0.03	10-13	16-18	2-3	-	0.1-0.16	-
	-	316N	316N	0.08	1	2	0.045	0.03	10-14	16-18	2-3	-	0.1	-
	317	317	317	0.08	1	2	0.045	0.03	11-15	18-20	3-4	-	-	-
	317L	-	317L	0.03	1	2	0.045	0.03	11-15	18-20	3-4	-	-	-
	321	-	321	0.08	1	2	0.045	0.03	9-12	17-19	-	-	-	Ti5X(C+N)0.7
	-	321	321	0.08	1	2	0.045	0.03	9-13	17-19	-	-	-	Ti5XCmin
F E R R I T E	434A			0.12	1	-	0.04	0.03	0.6	16-18	-	0.7-1	-	-
	430	430	430	0.12	1	1	0.04	0.03	0.6	16-18	-	-	-	-
	430F	430F	430F	0.12	1	1.25	0.06	≥0.15	0.6	16-18	-	-	-	-
	-	-	430CU	0.08	1	2	0.04	0.03	0.6	16-18	-	0.5-1.5	-	-
M A R T E N S I T I C	410	410	410	0.15	1	1	0.04	0.03	0.6	11.5-13.5	-	-	-	-
	416	416	416	0.15	1	1.25	0.06	≥0.15	0.6	12-14	0.6	-	-	-
	420	-	420	0.16-0.25	1	1	0.035	0.03	0.6	12-14	-	-	-	-
	-	420J2	420J2	0.26-0.35	1	1	0.035	0.03	0.6	12-14	-	-	-	-
	-	420F	420F	0.26-0.35	1	1.25	0.06	≥0.15	0.6	12-14	-	-	-	-
P A E C I P I T A T I O N H A R D E N I N G	-	631J1	631J1	0.09	1	1	0.04	0.03	7-8.5	16-18	-	-	-	Al0.075-1.5



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