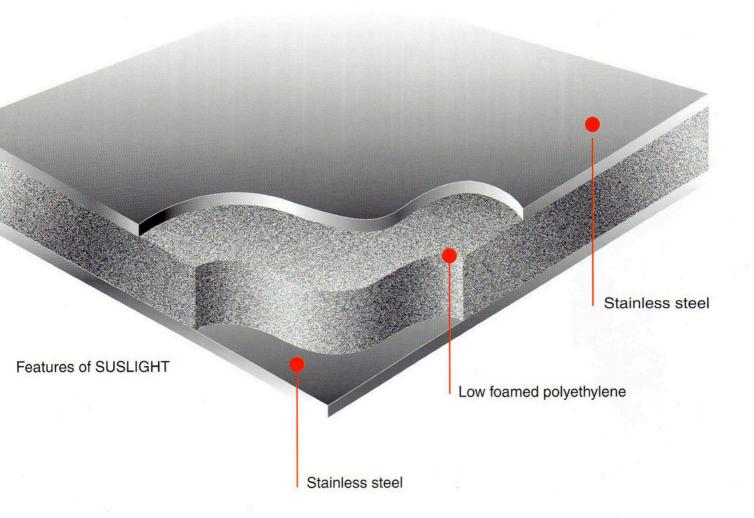
Super-light Stainless steel Composite Panel SUSLIGHT

Amazingly light for stainless steel!

SUSLIGHT is a Super-light Stainless steel Composite Panel made by layering together plastic sheets and metal made possible by a production technology using continuous production lines



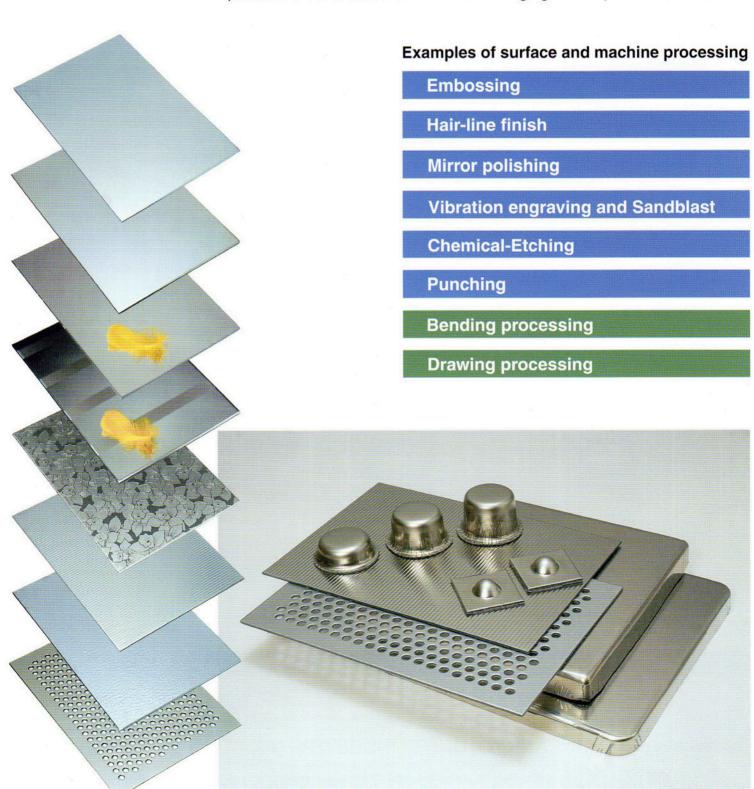
- New Composite Panel made to offer the most in functionally
 Stainless steel has three times the elasticity of aluminum, and it has both the high elongation and high rigidity required for a variety of different types of machining.
- Made from stainless steel and low foamed polyethylene
 The composition of stainless steel and low foamed polyethylene provides the same lightness as ordinary products.
- High resistance to corrosion in consideration of the environment SUSLIGHT is made from SUS-304, also known as 18-8 stainless steel.
- Good operation and ecologically sound design made possible by lightness With a specific gravity of 1.03 for 4-millimeter-thickness composite panel, SUSLIGHT is incredibly light for stainless steel.
- Isolated bubbles and low foamed polyethylene with excellent characteristics Unlike ordinary sponge-form bubbles, isolated bubbles consist of globular bubbles which each exist independently of the other. This prevents water osmosis, makes it difficult for the structure to collapse, and provides a continued high level of stiffness without damage from stress.

The secret lies in the isolated bubbles!

SUSLIGHT is available in a wide range of shapes and styles!

Depending on the application, the surface of SUSLIGHT may be polished into a mirror surface, embossed, etched, or decorated in a variety of other ways.

The special characteristics of low foamed polyethylene have also made it possible to bend SUSLIGHT without changing its shape or thickness.



May be used in a wide variety of applications

SUSLIGHT provides all the ordinary characteristics of stainless steel while providing improved ease of use made possible by its superior Lightness.

SUSLIGHT is perfect for use as an interior or exterior finishing material, and its surface may be processed in a wide variety of different ways as a processed product, thus making it a miraculous product which may be used as an interior material and in a wide variety of other applications

Wall panel
Entrances
Interior finishing
Doors & cabinet doors
Elevators
Signs

Construction / Signs

Freezer trucks
Refrigerator trucks
Trucks
Train dining cars
& washrooms
Containers
Interior ship finishings

Applications

Automotive vehicles & Ships

SUSLIGHT

Other uses

Shutters
Bathroom mirrors
Machine covers
Urban environment facilities
Road facilities

Daily necessaries

Attache cases Suit cases Mail boxes Tool boxes

Kitchen / Bathroom

Commercial refrigerators

Interior kitchen finishings

Inside walls of sink storage units

Unit bath walls and ceiling

Product specifications

Item	Туре	#1210	#1510	#2010	#3010	#4010
Total thickness	mm	1.2	1.5	2.0	3.0	4.0
Specific gravity	(-	1.95	1.67	1.41	1.16	1.03
Width	mm			914		
Length	mm			1820	-	
Maight	kg/m²	2.3	2.5	2.9	3.5	4.1
Weight	kg/sheet	3.8	4.2	4.8	5.8	6.8

Each brand includes two different types of products:Bright-Annealing stainless steel(BA)designed for easier processing and High-Tension stainless steel(HT).(Example of order panel: #1210-HT or #1210-BA)

Please contact us for products of other than standard length.

Physical properties

Item	Туре	#1210		#1510		#2010		#3010		#4010	
item		ВА	HT	ВА	HT	BA	HT	ВА	HT	ВА	HT
Tanaila atranath	MPa	137	284	110	231	88	176	59	118	49	88
Tensile strength	kgf/mm²	14	29	11	24	9	18	6	12	5	9
Elongation	%	50	10	50	10	50	10	50	10	50	10
Bending	MPa	157	284	127	225	108	167	88	157	69	127
strength	kgf/mm²	16	29	13	23	11	17	9	16	7	13
Bending	GPa	82		68		53		37		28	
modulus	kgf/mm²	83	8346 6928		28	5397		3744		2874	
Thermal	W/m·K	0.12~0.13									
conductivity	Kcal/m·h·℃				0.10~0.11						
Deformation temperature	°C	90~95)						

The above figures are taken from SANKYO UNITE INDUSTRY CO.,LTD. measurements, and are not to be interpreted as represented guaranteed values.

Comparison of weight

SUSLIGHT is one-third to one-fourth the weight of ordinary stainless steel of the same rigidity per unit area, and it is also one-half to two-thirds the weight of comparable aluminum.

SUSLI	GHT	stainless steel aluminum					
Туре	kg/m²	Equivalent rigidity Thickness(mm)	kg/m²	Reduction in Weight	Equivalent rigidity Thickness(mm)	kg/m²	Reduction in Weight
#1210	2.3	0.90	7.2	68%	1.26	3.4	32%
#1510	2.5	1.06	8.4	70%	1.48	4.0	37%
#2010	2.9	1.30	10.3	72%	1.82	5.0	42%
#3010	3.5	1.72	13.6	74%	2.41	6.6	47%
#4010	4.1	2.11	16.7	75%	2.95	8.0	49%

Specific gravity:SUS-304=7.93, AL-3004=2.72

Press formability

SUSLIGHT Type	Erichsen value
#2010 - BA	1 1 mm
#3010 - BA	1 O mm
#4010 - BA	9 mm

SUSLIGHT BA has an elongation 50 percent, thus making it extremely easy to work with.

SUSLIGHT BA is resistant to cracking even when bent at a radius of 0mm at an angle 180°.

Even when bent, SUSLIGHT BA does not suffer from surface damage.

Hole punchability is such that internal burr tends not to occur the nearer to a clearance value of 0 percent.

Cautions to be observed in the handing of SUSLIGHT

- Placing SUSLIGHT sideways or vertically on a palette may result in warping which would result in a loss of the flatness of the surface, and SUSLIGHT should accordingly always be placed flat on a palette or similar surface.
- Since the edges of SUSLIGHT panel are not covered with any protective material, it should never be handled or carried with bare hands. Also always be sure to allow sufficient space for working or for placing SUSLIGHT panels down to protect the edges.
- Stacking of SUSLIGHT one over the other while filings(i.e., plastic filings) are attached to the surface may cause depressions to be formed in the surface, and care should be accordingly taken to avoid doing so.
- The protective film on the surface of SUSLIGHT panels should be remove as soon as possible after installation.
 - Protective film deteriorates after long periods of use, and failing to remove the protective film promptly may result in film adhesive remaining on the panels or in it becoming difficult to remove the protective film.



〒319-0111 茨城県小美玉市中野谷434-2 TEL 0299-47-0211 FAX

SUSLIGHT INDUSTRY CO.,LTD.

434-2,O aza Nakanoya Minori-machi HigasilbarakiGun Ibaraki-ken Japan PO 319-0111 Telephone:0299-47-0211 Facsimile:0299-E-mail:uchida@uchidaa.com http://www.uchidaa.com