



**SHAH FOILS LIMITED**

ISO 9001-2015 Certified Company



## WHO WE ARE

**SHAH FOILS LTD.** was established in the year 2001 to manufacture and export cold rolled stainless steel coils, strips and circles. Located at santej (kalol) gandhinagar, Gujarat, the company is swiftly leaping towards growth.

Today, **SHAH FOILS LTD.** is a forerunner and one of the largest manufacturer of cold rolled stainless steel coils & strips with an annual installed capacity of 75,000 mt. Modern infrastructure and a well- trained team have proven to be strong foundations for the company. We have well equipped machines backed by team of professionals and technicians. Customer satisfaction being the ultimate goal, every requirement is carefully met considering the quality, time and place of delivery.



**KARTIK SHAH** (MANAGING DIRECTOR)

## OUR PRODUCTS



**Stainless Steel Coil**



**Stainless Steel Circle**



**Stainless Steel Strips**



## SEGMENTS WE ARE CATERING TO

Pipe & Tube | Auto Industry | Industrial Segment  
Electronic Industry | Electrical Industry  
Consumer durable | Lifestyle Products

# REALISING THE REAL POTENTIAL



## PRODUCTION MACHINES

- |                                     |                          |
|-------------------------------------|--------------------------|
| ■ 20 Hi Sendzimir Cold Rolling Mill | ■ Round edge Line        |
| ■ Bright-Annealing line             | Degreasing Line          |
| ■ Precise Slitting Machine          | Cut to Length            |
| ■ Deburring Line                    | ■ Circle Cutting Press   |
| ■ 12 Hi Cold Rolling Mill           | ■ 4 Hi Cold Rolling Mill |

Tension Leveler (Redex make)



Precise Slitting Machine

20 Hi Sendzimir Cold Rolling Mill



BA Line



# DIVERSE NEEDS. ONE SOLUTION.



## PRODUCT RANGE

- Cold Rolled Precision Stainless Steel Strip
- Grades: 200, 300 and 400 series & Blade Steel
- Finish: 2B, BA/2R, 2H
- Thickness: 0.08 mm to 3mm
- Width: 3 mm to 620 mm
- Edge Condition: Mill Edge, Slit Edge, Deburred Edge, Deburred and Round Edge
- Deburred and Champhered Edge
- Strip Temper: Annealed, 1/4 Hard, 1/2 Hard, 3/4 Hard, Full Hard, Extra Hard
- Standards: ASTM, ASME, EN, JIS or any other international standards



Stainless Steel Precision Strips

# SUSTAINING QUALITY. SERVING EXCELLENCE.



## MATERIAL SPECIFICATION

### 200 SERIES MATERIAL

GRADE	C% (MAX)	MN% (MAX)	S% (MAX)	P% (MAX)	SI% (MAX)	NI%	CR%	MO%	N% (MAX)	CU%	OTHERS	TS (MIN)	YS (MIN)	EL% (MIN)	HARDN ESS (HV)
J1	0.12	10.7	0.01	0.1	0.75	0.80-1.30	13.25-14.25		0.2	0.6-0.9		750	350	40	245 max
J3	0.13	10.7	0.01	0.1	0.75	0.80-1.30	13.25-14.35		0.2	0.5-0.8		750	350	40	245 max
J-4	0.1	10	0.01	0.08	0.75	1.00-2.00	15.00-16.00		0.2	1.5-2.0		650	325	40	245 max
201	0.15	7.5	0.03	0.06	1	3.50-5.50	16.00-18.00		0.25			655	310	40	245 max
202- 4%	0.15	10	0.03	0.06	1	4.00-6.00	17.00-19.00		0.25			620	260	40	245 max
204CU0.	1	9	0.01	0.06	0.75	1.50-3.50	16.00-17.50		0.2	2.0-4.0		620	310	40	245 max

### 300 SERIES MATERIAL

GRADE	C% (MAX)	MN% (MAX)	S% (MAX)	P% (MAX)	SI% (MAX)	NI%	CR%	MO%	N% (MAX)	CU%	OTHERS	TS (MIN)	YS (MIN)	EL% (MIN)	HARDN ESS (HV)
301	0.15	2	0.03	0.045	1	6.00-8.00	16.00-18.00			0.1		515	205	50	220 max
304	0.07	2	0.03	0.045	0.75	8.00-10.50	17.50-19.50			0.1		515	205	50	205 max
304L	0.03	2	0.03	0.045	0.75	8.00-12.00	17.50-19.50			0.1		485	170	40	205 max
316	0.08	2	0.03	0.045	0.75	10.00-14.00	16.00-18.00		2.0-3.0	0.1		515	205	53	220 max
316L	0.03	2	0.03	0.045	0.75	10.00-14.00	16.00-18.00		2.0-3.0	0.1		485	170	53	220 max

### 400 SERIES MATERIAL

GRADE	C% (MAX)	MN% (MAX)	S% (MAX)	P% (MAX)	SI% (MAX)	NI%	CR%	MO%	N% (MAX)	CU%	OTHERS	TS (MIN)	YS (MIN)	EL% (MIN)	HARDN ESS (HV)
430	0.12	1.00	0.030	0.040	1.00	0.75 max	16.00-18.00					450	205	22	185 max
409L	0.030	1.00	0.030	0.040	1.00	0.50 max	10.50-11.70		0.03		Ti-0.75 max	380	170	20	185 max
441	0.030	1.00	0.015	0.040	1.00		17.50-18.50				Ti-0.6 max	430	250	18	185 max
410	0.150	1.00	0.030	0.040	1.00	0.75 max	11.50-13.50					450	205	20	230 max
(Blade Steel)		1.00										758			

NOTE: WE CAN SUPPLY MATERIAL AS PER ASTM, EN-10088 & JIS STANDARDS.

# ENSURING QUALITY. ASSURING EXCELLENCE.

## MATERIAL SPECIFICATION

### EDGE CONDITIONS

S.E	Slit Edge*	Slitting leaves a straight edge without excessive burr: Burr height $\leq 10\%$ of thickness
D.E	Deburred Edge**	After slitting, the corners are mechanically removed
R.E	Round Edge**	After slitting, the edges are mechanically rounded.
M.E	Mill Edge	Without Slitting

### THICKNESS TOLERANCES IN MM\*

THICKNESS MM	W $\leq 80$ MM	W 80MM TO 160MM	W 160MM TO 250MM	W 250MM TO 620MM
0.05 to 0.10	$\pm 0.008$	$\pm 0.010$	$\pm 0.015$	$\pm 0.020$
0.11 to 0.15	$\pm 0.010$	$\pm 0.015$	$\pm 0.020$	$\pm 0.020$
0.16 to 0.25	$\pm 0.015$	$\pm 0.020$	$\pm 0.025$	$\pm 0.030$
0.26 to 0.40	$\pm 0.020$	$\pm 0.025$	$\pm 0.030$	$\pm 0.035$
0.41 to 0.60	$\pm 0.025$	$\pm 0.035$	$\pm 0.040$	$\pm 0.040$
0.61 to 0.80	$\pm 0.035$	$\pm 0.040$	$\pm 0.045$	$\pm 0.045$
0.81 to 1.00	$\pm 0.040$	$\pm 0.045$	$\pm 0.050$	$\pm 0.050$
1.00 to 1.25	$\pm 0.050$	$\pm 0.050$	$\pm 0.050$	$\pm 0.050$

### WIDTH TOLERANCES IN MM\*

THICKNESS MM	W $\leq 20$ MM	W 21MM TO 50MM	W 51MM TO 200MM	W 200MM TO 620MM
Th $\leq 0.25$	$\pm 0.05$	$\pm 0.10$	$\pm 0.15$	$\pm 0.20$
0.26 to 0.60	$\pm 0.10$	$\pm 0.15$	$\pm 0.20$	$\pm 0.25$
0.61 to 0.80	$\pm 0.15$	$\pm 0.20$	$\pm 0.25$	$\pm 0.25$
0.81 to 1.00	N/A	$\pm 0.25$	$\pm 0.25$	$\pm 0.30$
1.00 to 1.25	N/A	N/A	$\pm 0.30$	$\pm 0.30$

### HARDNESS RANGE

GRADE	SYMBOL OF TEMPER*	HARDNESS HV	GRADE	SYMBOL OF TEMPER*	HARDNESS HV
301	$\frac{1}{2}$ H	310 min.	J-4	$\frac{1}{2}$ H	310 min.
	$\frac{3}{4}$ H	370 min.		$\frac{3}{4}$ H	370 min.
	H	430 min.		H	430 min.
	E H	490 min.		E H	
304	$\frac{1}{2}$ H	250 min.	JSL USD / DD	$\frac{1}{2}$ H	310 min.
	$\frac{3}{4}$ H	310 min.		$\frac{3}{4}$ H	370 min.
	H	370 min.		H	430 min.
316	$\frac{1}{2}$ H	250 min.	JSL AUS / J-1	$\frac{1}{2}$ H	290 min.
	$\frac{3}{4}$ H	310 min.		$\frac{3}{4}$ H	340 min.
	H	370 min.		H	380 min.





# PRECISION THAT ENSURES PERFECTION



## QUALITY EQUIPMENTS

### INSTRUMENTS

### TESTS

■ Rockwell Hardness Testing Machine	■ Hardness Measurement of Thick section
■ Surface Roughness Tester	■ Ra Value
■ UTM Machine With Extensometer	■ Tensile strength, Yield Strength and Elongation
■ Digital Vickers Hardness Testing Machine	■ Hardness Measurement
■ Slip Gauges	■ Measuring linear dimensions
■ Micro Hardness Testing Machine	■ Hardness Measurement of thin and ultra thin sheet
■ Granite Slab	■ Checking flatness of surfaces
■ Dial Gauge	■ Checking flatness of surfaces
■ Erichsen Cupping Machine	■ ECV Testing
■ Straight Edge	■ Checking their straightness



Slip Gauge



Micro Hardness Tester



Digital Vickers Hardness Tester



# SHAH FOILS LIMITED

ISO 9001-2015 Certified Company

## REGISTERED OFFICE

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