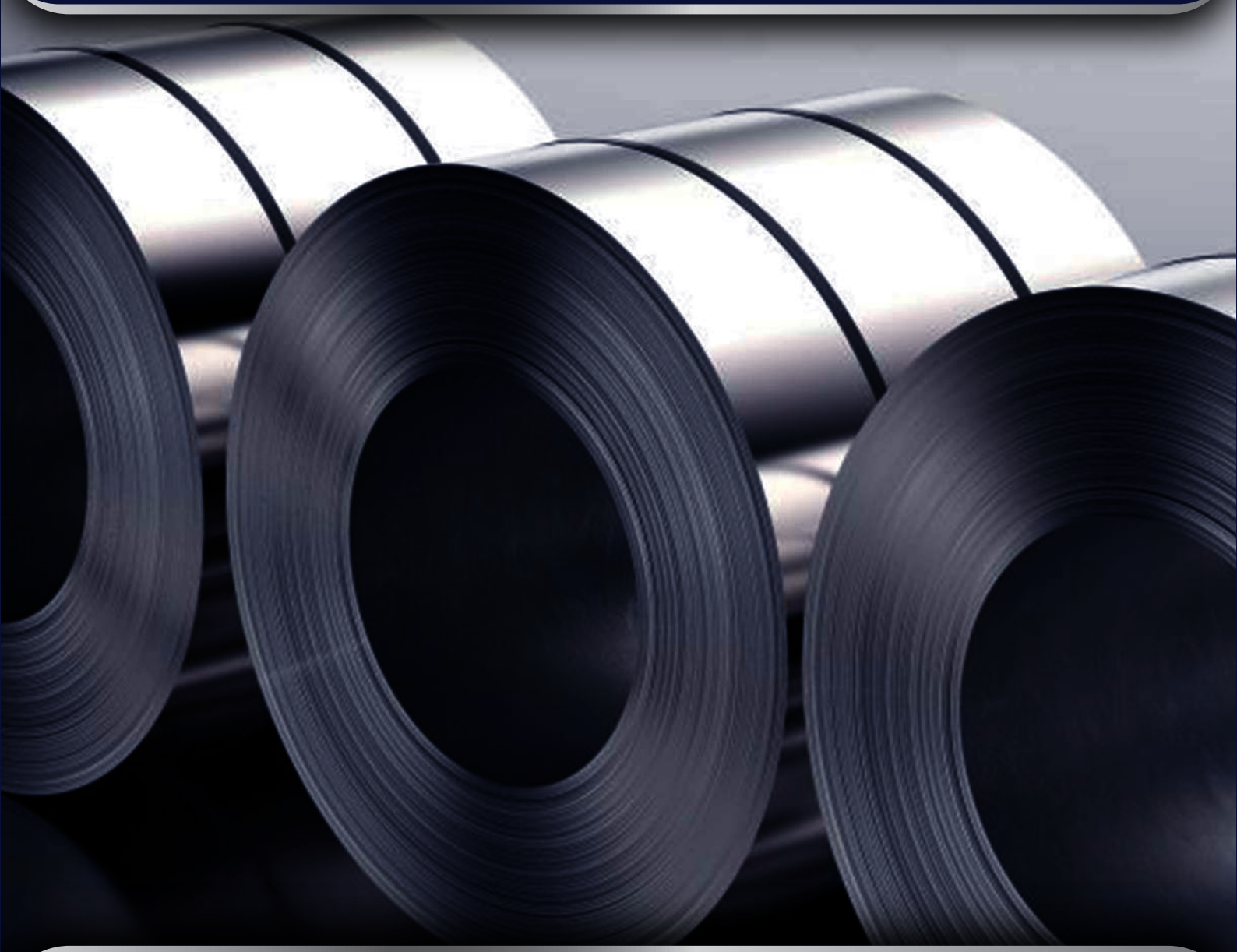
BTC

Complete Solution to Steel Strips

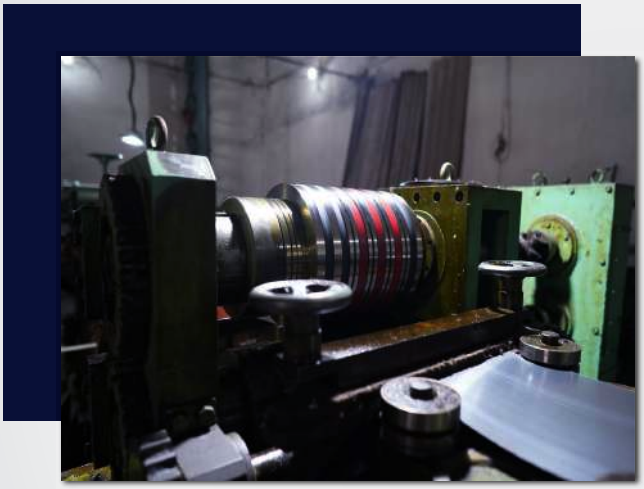


BIJOY TRADING COMPANY

The Most Comprehensive Steel Strip House

About Us

Complete Solution to Steel Strips



Our Mission

We aim to manage the human, technical and financial resources through a process of continual improvement. We create engaging experiences that helps turn our clients into trailblazers leading to performance driven results.

OUR JOBS IS TO UNDERSTAND HOW THE CUSTOMER WANTS TO BUY AND HELP THEM TO DO SO

Bijoy Trading Company is a specialized steel company based in the East of India, specialising in the Export / Distribution of Hardened-Tempered & Cold Rolled Steel Strip. Our steel strip products of exceptional and consistent quality in terms of precise tolerances are supplied globally in applications in the OEM industry for compressor flapper and reed valve discs, shock absorber valve discs, automotive horn diaphragms, constant torque springs, NBR coated steel for compressor and automotive gaskets, textured steel for automotive seat belt safety springs, Woodworking Saws & Carpentry Tools, Gang saws, Surgical Scalpels & Ophthalmic Blades, Flexible Die for Label Cutting, etc.

For nearly 60 years in trade, by committing ourselves to the Golden Rules of Business, we get an edge above our competitors by serving the clients with dedication and perfection.

We have the credibility to feed our clients, with quality material, in the shortest lead time possible. Our intensive Planning, reduces the inventory level and procurement stress of our clients; ensuring that the production is notaffected due to delay in supplies. We boast to offer the widest range of product under one umbrella. Equipped with state-of-the-art precision slitting line & Cut To Length Facility, our Service Centre is a source of support to our valued Customers, where they can get the Precision Slitting and CTL done under 1 roof.

Our Products

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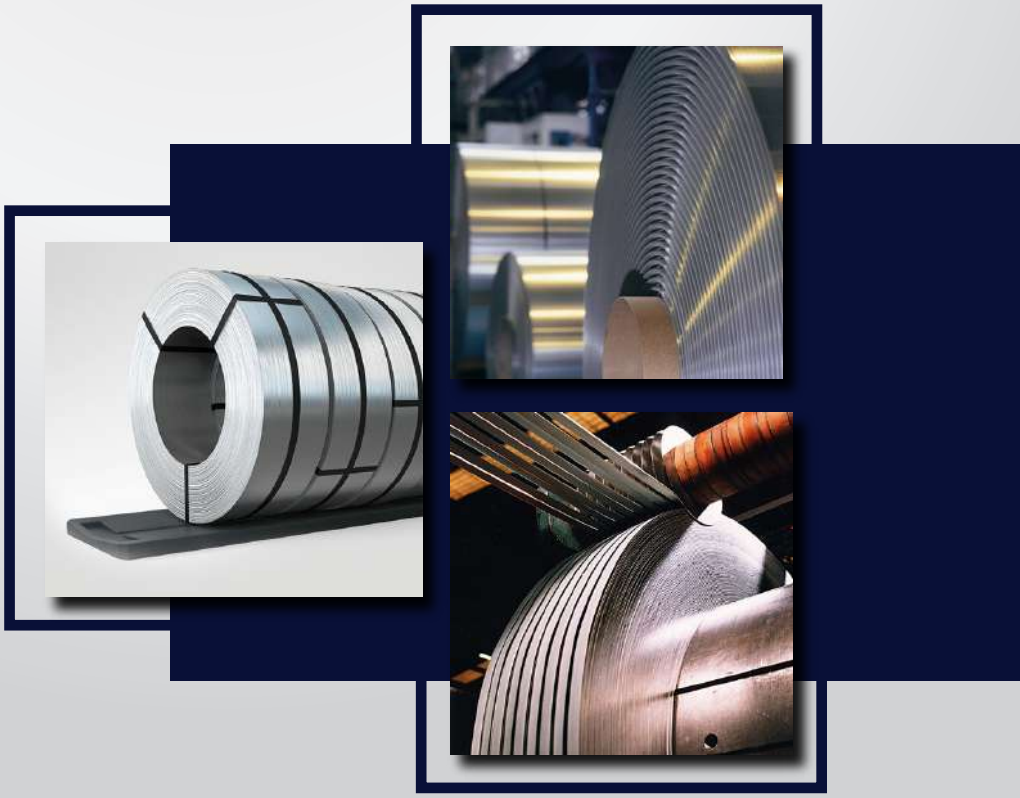
- HARDENED &TEMPERED STEEL STRIPS
- CRCA HIGH CARBON STEEL STRIPS
- CRCA MEDIUM CARBON STEEL STRIPS
- LOW CARBON / MILD STEEL STRIPS
- LOW ALLOYED STEEL STRIPS
- ROLLING HARD STEEL STRIPS
- RAZOR BLADE STEEL STRIPS
- HARDENED & TEMPERED STAINLESS STEEL STRIPS
- COATED STEEL STRIPS



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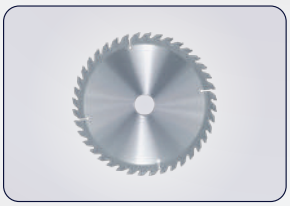
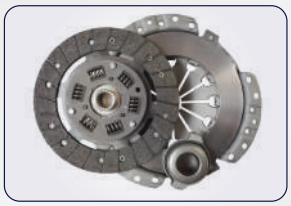
Hardened & Temepered Steel Strips

Hardening and Tempering is a thermal process that strengthens steel through a controlled heating and cooling process.
This process will result in improved mechanical properties and give a tougher more durable product. The hardening process involves heating the steel to above the critical temperature for the given grade and then rapidly cooling. Whilst this process achieves the highest mechanical strengths and hardness's, steel in this condition is extremely brittle and therefore requires further treatment in the form of tempering. This consists of reheating the steel to a lower temperature and holding the steel at the given temperature for a given period of time. As with traditional annealing (used to soften steels) this process is conducted in an inert atmosphere to avoid oxidation.
We offer the following grades in hardened tempered steel strips :-

Chemical Composition								
Grade	**%C**	**%Si**	**%Mn**	**%S**	**%P**	**%Cr**	**%V**	**%Ni**
C - 55	0.50 - 0.60	0.10 - 0.35	0.50 - 0.65	0.05	0.05	-	-	-
C - 65	0.60 - 0.70	0.10 - 0.35	0.50 - 0.65	0.05	0.05	-	-	-
C - 80 / C-75	0.70 - 0.85	0.10 - 0.35	0.50 - 0.80	0.05	0.05	-	-	-
C - 98 / C100S	0.90 - 1.05	0.10 - 0.35	0.50 - 0.80	0.05	0.05	-	-	-
50Cr4V2	0.45 - 0.55	0.10 - 0.35	0.60 - 0.90	0.05	0.05	0.90 - 1.2	0.15 - 0.30	-
75Ni8	0.75 - 0.85	0.10 - 0.35	0.50 - 0.80	0.05	0.05	-	-	1.70 - 2.10

Circlips


Circular Saw Blade


Flat Spring for Clutch

Seat Belt Spring

Wiper Blade Steel

Flapper Valve for Shock Absorber

Flexible Die Steel

Band Knife

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Gang Saw Blade

Snap Ring for Filter Bag

Doctor Blades for Paper Industry

Hand Saw Blade

Band Saw Blade

Chain Guide

Luggage Handle

Masonry Tools

Range	
Width :	6 mm to 550 mm.
Thickness :	0.05 mm to 4.00 mm.
Hardness :	30 HRC Min to 58 HRC Max.
Surface Finish :	Bright polished, Blue, Brown & Grey.
Edges :	One or both side edge round, square & chamfered & sheared edge.

FORM OF SUPPLY : Materials are supplied in coil form. If any special I.D. & O.D. requirements are there, that can be maintained. Further, material can also be supplied in cut lengths, if required by the customer.

APPLICATIONS:

Automobile Sector : Flapper Valve for Shock Absorber, Flat Spring for Clutches, Seat Belt Spring, Retractor Spring for automotive seat belt, Wiper Blade Steel, Circlips, Chain Guide .etc.

Carpentry/Wood Working Tools : Handsaw, Plastering Trowel, Circular Saw, Bandsaw Blades, Crosscut Saw, Pit Saw .etc.

Marble/Stone Cutting Tools : Gangsaw Blades, Circular Saw Blanks.

Other Applications : Flexible Die Steel, Doctor Blades for Paper Industry, Luggage Handle, Snap Ring for Filter Bag, Masonry &Agricultural Tools, Reed & Discharge Valve for Compressor, Coil spring, Retractor Spring for Vaccum Cleaner, Band Knives, Leather Splitting Knives, Drop Pins for Textile Industry, Spring & Spring Washers etc.

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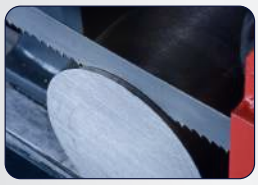
CRCA High Carbon Steel Strips

High carbon steels contain from 0.80 to 1.25% C with manganese ranging from 0.5% to 0.9% This steels are commonly known as spring steel. These steels are generally operated at very high stresses and heat-treated to obtain the maximum elastic limits and fatigue resistance without becoming sufficiently brittle to cause sudden failure in service. Hardenability of spring steel is very important because only fully hardened springs have the maximum resistance to take a permanent set (sagging).

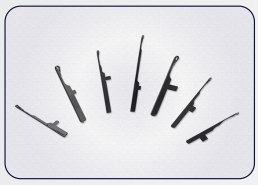
We offer the following grades :-

Chemical Composition						
Grade	%C	%Si	%Mn	%S	%P	%Cr
C - 80	0.75 - 0.85	0.10 - 0.35	0.50 - 0.80	0.05 Max	0.05 Max	-
C - 98	0.90 - 1.05	0.10 - 0.35	0.50 - 0.80	0.05 Max	0.05 Max	-
C125 / HC21 / 125CR1	1.10 - 1.30	0.10 - 0.35	0.30 - 0.60	0.05 Max	0.05 Max	0.20 - 0.50


Metal Cutting Band Saw Blade

Knives for Cutting Foam & Plastics

Surgical Blade(Scalpel)


Textile Needles

Hanger Clips

Range	
Width :	8 mm to 500 mm (in thickness lower than 0.6 mm, 4 mm wide material can be supplied)
Thickness :	0.07 mm to 5.00 mm
Hardness :	Fully annealed material with a maximum hardness of 200 VPN & special temper material with hardness ranging from 230 VPN to 270 VPN.
Surface Finish :	Bright polished, Blue, Brown & Grey.
Edges :	Bright

Form of supply: Materials are supplied in coil form. If any special I.D. & O.D. requirements are there, that can be maintained. Further, material can also be supplied in cut lengths, if required by the customer.

Applications: Surgical Blade(Scalpel), Metal Cutting Band Saw Blades, Circlips, Textile Needles, Automobile Components, Knives for Cutting Foam & Plastics, Agricultural Tools, Hack Saw Blades , Defense Products, Automotive Springs, Hanger Clips, etc.

Complete Solution to Steel Strips

CRCA Medium Carbon Steel Strips

Meduim Carbon Steels are similar to low carbon steel except that the carbon ranges from 0.30 to 0.60% & the manganese from 0.50 to .70%. Increasing the carbon content is approximately 0.5% with an accompanying increase in manganese allows medium carbon steels to be used in the quenched & tempered conditions. This steels are of particular importance because of unique combination of strength & toughness after heat treat treatment.

We offer the following Grades :-

Chemical Composition					
Grade	**%C**	**%Si**	**%Mn**	**%S**	**%P**
C - 40	0 . 35 - 0 . 45	0 . 10 - 0 . 35	0 . 60 - 0 . 90	0 . 05 Max	0 . 05 Max
C - 55	0 . 50 - 0 . 60	0 . 10 - 0 . 35	0 . 50 - 0 . 65	0 . 05 Max	0 . 05 Max
C - 65	0 . 60 - 0 . 70	0 . 10 - 0 . 35	0 . 50 - 0 . 80	0 . 05 Max	0 . 05 Max

Washers

Safety Toe Cap

Pen Clips

Measuring Tape

Shoe Shank

Range	
Width :	8 mm to 500 mm
Thickness :	0.10 mm to 6.00 mm
Hardness :	Fully annealed or rolling hard as per customer requirement.
Surface Finish :	Bright

Form of supply : Materials are supplied in coil form. If any special I.D. & O.D. requirements are there, that can be maintained. Further, material can also be supplied in cut lengths, if required by the customer.

Applications : Defence Products, Pen Clips, Hair Clips, Automotive Seat Belt, High Tensile Steel Strapping, Safety Toe Cap, Drums, Washers . Shoe Shank, Measuring Tape, etc.

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Low Carbon Mild Steel Strips

Low carbon steels contains up to 0.30% C. The largest category of this class of steel is flat rolled products (sheet or strip), usually in the cold rolled & annealed condition.
The following table will show the specifications of steel we can often off the shelf:

Material Specification								
Specification		Grade	Chemical Composition				Mechanical Properties	
			C	Mn	S	P		
1	**Ordinary**							
	IS:513-1986	O	0.15	0.06	0.055	0.055	_	_
2	**Drawing**							
	IS:513-1986	D	0.12	0.5	0.04	0.04	28-42	28
	BS:1449/Part-1/1983	CR-4	0.12	0.6	0.05	0.05	29 min.	-
	JIS:G-3141/1977	SPCC	0.12	0.5	0.045	0.04	28 min.	32 (b)
	DIN:1623/Part-1/1983	St - 12	0.1				28-42	28 (d)
3	**Deep Drawing**							
	IS:513-1986	DD	0.1	0.45	0.035	0.035	28-38	32
	BS:1449/Part-1/1983	CR-3	0.19	0.5	0.04	0.04	20 min.	25(c)
	JIS:G-3141/1977	SPCD	0.1	0.45	0.035	0.035	28 min.	34.41 (b)
	DIN:1623/Part-1/1983	RRSt - 13	0.1				28-38	34 (d)
4	**Extra Deep Drawing**							
	IS:513-1986	EDD	0.8	0.4	0.03	0.03	28-38	36
	BS:1449/Part-1/1983	CR-2	0.8	0.45	0.035	0.03	29 min.	27 (c)
	JIS:G-3141/1977	SPCE	0.8	0.4	0.03	0.03	28 min.	36.43 (b)
	DIN:1623/Part-1/1983	RRSt - 14	0.8				28-36	38 (d)
5	**Non-Ageing Extra Deep Drawing**							
	BS:1449/Part-1/1983	CR-1	0.08	0.45	0.03	0.025	29 min.	29 (c)

Range	
Width :	4 mm min to 1800 mm max
Thickness :	0.07 mm to 5.00 mm
Hardness :	As per customer requirement

Applications : Caps, Picture Tubes, Safety Pins, Hinges, Clips, Cans, Body Panels, Numerous Components for Automobile Industry, Defence, Rolling Shutters, Concertina Wire .etc.

Low Alloyed Steel Strips

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We offer the following Grades :-

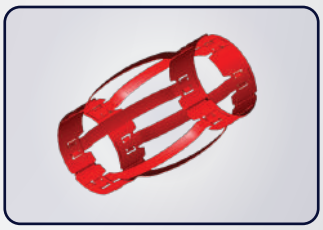
Chemical Composition							
Grade	%C	%Si	%Mn	%S	%P	%Cr	%V
50CR4V2	0.45 - 0.55	0.10 - 0.35	0.50 - 0.80	0.05 Max	0.05 Max	0.90-1.20	0.15. 003
15MnCr5	0.14 - 0.19	0.10 - 0.40	1.00 - 1.30	0.03 Max	0.02 Max	0.80-1.10	-

Range	
Width :	8 mm to 500 mm
Thickness :	0.50 mm to 5.00 mm
Hardness :	Fully annealed(soft) material with a maximum hardness of 210 VPN.
Surface Finish :	Bright

High Tensile **Washers**

Form of supply : Materials are supplied in coil form. If any special I.D. & O.D. requirements are there, that can be maintained.
Further, material can also be supplied in cut lengths, if required by the customer.

Applications : Bow spring centralizer, Clutch Plates, High Tensile Sping Washers & Circlips, Defense products, etc.



Bow Spring **Centralizer**

SPECIAL TEMPER COLD ROLLEDSTEEL STRIPS (ROLLING HARD)

These are basically as rolled hard steel strip. To achieve a desired hardness, an annealed material of suitable thickness is taken and rolled down to the required thickness, to achieve that required hardness. After rolling, the material is pinch passed and final annealing is not required.
To choose the correct thickness (for reduction to the desired thickness) is a matter of expertise.

Grades : This strip is available in low, medium & high carbon grades.

Applications : It is suitable for components where formability is limited. It saves the extra annealing cost.
The strip is directly punched & formed and if required sent for heat treatment.

Razor Blade Steel Strips

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These strips are available in High Carbon Steel Grade C98 & C125 & 13 % Chromium Martenistic steels.
These are used for making Razor Blades.

CHEMISTRY

High Carbon Razor Blade Strips	
Carbon %	0.95 to 1.20
Silicon %	0.05 to 0.35
Manganese %	0.60 to 0.90
Chromium%	0.30 max
Sulphur %	0.05 max
Phosphorus %	0.05 max

High Chromium Stainless Strips	
Carbon %	0.60 - 0.70
Silicon %	0.10 - 0.50
Manganese %	0.50 to 1.00
Chromium%	12.50 - 13.50
Sulphur %	0.04 max
Phosphorus %	0.04 max

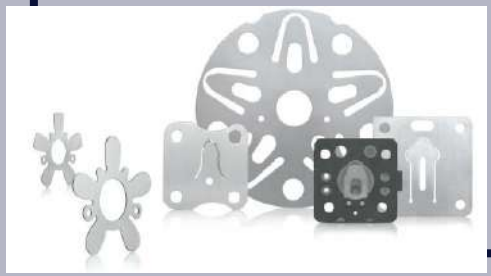
Hardened & Tempered Stainless Steel Strips

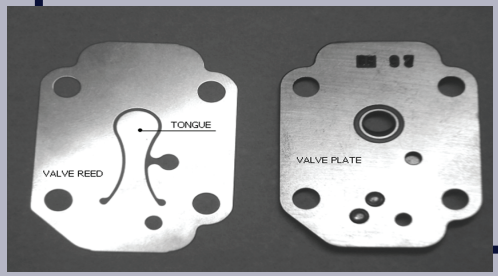
This steel is used for manufacturing Flapper & Reed Valve for Refrigerator Compressors.

CHEMISTRY :

High Carbon Razor Blade Strips	
Carbon %	0.38
Silicon %	0.4
Manganese %	0.55
Chromium%	13.5
Sulphur %	0.005 max
Phosphorus %	0.03 max
Molybdenum %	1.00

Range	
Width:	5 mm to 600 mm
Thickness:	0.10 mm to 2.00 mm
Hardness:	38 HRC to 55 HRC
Surface Finish:	Polished Bright





Coated Steel Strips

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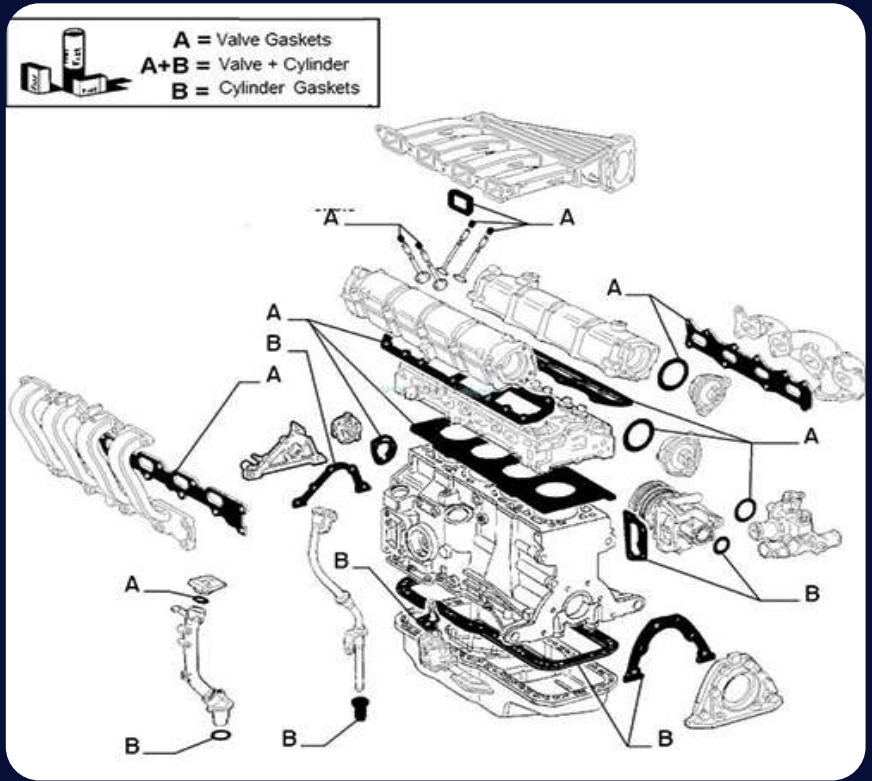
This steel is used for manufacturing Automotive Gaskets & Refrigeration Compressor Gaskets.

RANGE

STEEL

DC01 :- Low carbon steel in annealed or cold reduced condition.
Thickness : 0.20 mm to 0.80 mm
SS301 :- AISI 301 stainless steel in cold rolled, cold reduced condition.
Thickness : 0.20 mm to 0.80 mm
COATING: NBR ,Polyester LACQUER, MOLYCOTE
Thickness 10 to 60 microns. (Rest as per requirement)
Coating on both sides of metal substrate is offered as standard; coating on one side can also be offered in case of specific client requirement
Coil Width: Standard coil width is 400-500 mm, slitting options available on specific client requirement Packaging options: On pallets, in coils, packaged in VCI plastic or paper.



Packaging

Packaging is provided as per customer specification. Packaging using VCI Paper is provided for Exports.

Quality Control

Inspection: Each & every batch of material is thoroughly tested from a NABL ACCREDITED LABORATORY. Both mechanical & chemical tests are thoroughly carried out before dispatch of any material to our clients. Our Inspection Team keeps a constant vigil on the following parameters:

Chemical Analysis: It is thoroughly checked that all the elements are within the required norms. The material is out right rejected if there is any deviation as regards the chemical composition.

Mechanical Properties: Hardness, tensile strength, elongation & yield are tested and compared with the clients' requirement. The material is dispatched only if the results are satisfactory.

Dimensions: Thickness, width and length (in case of cut length material) are inspected minutely. It is keenly observed, that no dimensions cross the tolerance limit.

Edge: The parameters as regards the edge are:

Slit Edge | Square Edge | Round Edge | Mill Edge

Tensile Testing Machine

Hardness Testing Machine

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We are on

Design By - STUDIO TESHI