

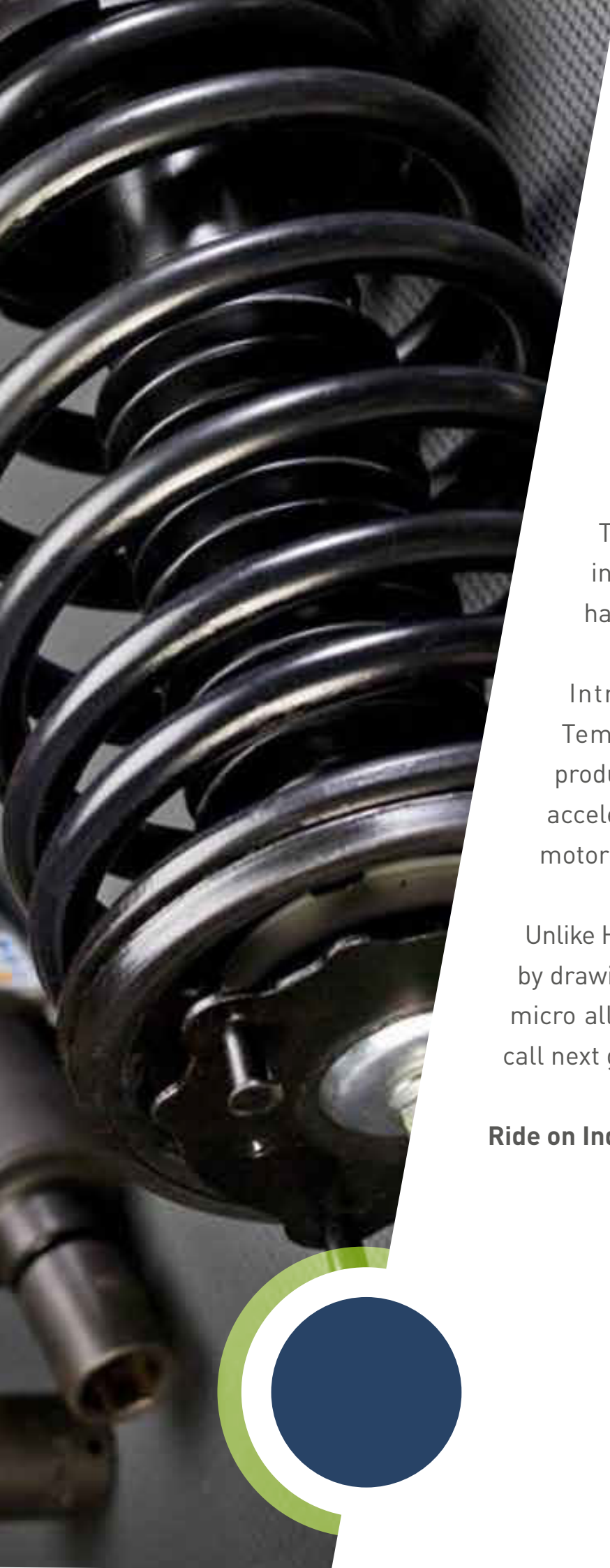
**TATA STEEL**

#WeAlsoMakeTomorrow

**TATA WIRON**



**Induction  
Hardened and  
Tempered Wire**



### **Revving ahead of the times.**

Tata Wiron is known to push the barriers in the market and this time the brand has taken it to a new level.

Introducing Induction, Hardened and Tempered (IHT) spring wire, a revolutionary product from Tata Wiron that is all set to accelerate the new age mono suspension motorcycles in India.

Unlike HC drawn wires, strength is imparted not by drawing but by heat treatment using special micro alloy steel drawing. Now that's what you call next generation spring wires.

**Ride on India towards a better tomorrow.**





## WIRE ROD GRADE AND CHEMISTRY

### SAE 9254

Element	Range
C%	0.51 - 0.59
Si%	1.2 - 1.6
Mn%	0.6 - 0.8
S%	0.025 max
P%	0.025 max
Cr%	0.6 - 0.8
Cu%	0.12 max

## DIAMETER, TOLERANCE AND OVALITY

Diameter, mm	7 to 10	10.01 to 14
Tolerance, mm	± 0.05	± 0.06
Max Ovality, mm	0.05	0.06



## MECHANICAL PROPERTIES - UTS, MPA

Diameter range	UTS, Mpa			
	TW 180		TW 200	
mm	Min	Max	Min	Max
7 to 14	1716	1865	1910	2060

## MECHANICAL PROPERTIES, RA, %

Diameter range	RA, %	
	TW 180	TW 200
mm	Min	Min
7 to 14	≥ 40%	≥ 35%







### **Surface Properties**

No complete decarburization.

### **Decarburization TEST (IS 6396)**

Maximum allowable partial decarburization is up to a radial depth  $\leq 1\%$  of nominal diameter or 0.07 mm (whichever is lowest), for all sizes & grades.

### **Deep Etch TEST (As per IS 4454 part 2 2001)**

Post deep etching of the wire, the radial depth of any surface defects (when examined microscopically), shall be  $\leq 0.07$  mm for all sizes & grades.

### **Surface Properties (Contd).**

All diameters and grades while undergoing hardening and tempering, will pass through inline eddy current equipment with stationary as well as rotating probe. Both longitudinal as well as transverse defects with a depth over the maximum allowable depth (as indicated above), will be detected and marked (with a paint), for discard at user end.

### **Surface Condition**

The wire surface will be covered by a very thin and adhesive black oxide layer. The surface will be adequately oiled for corrosion protection.

# COIL DIMENSIONS

Minimum inner diameter, mm	Maximum outer diameter, mm	Coil thickness (approx), mm	Coil Weight*
			Kg
1600	2200	230-240	1000 & 2000 kg coils

\* Coils will be available in 1 MT and 2 MT weights, with necessary customization as per user.

## PACKAGING

Strapping at eight places followed by stretched film and HDPE.

## CERTIFICATION

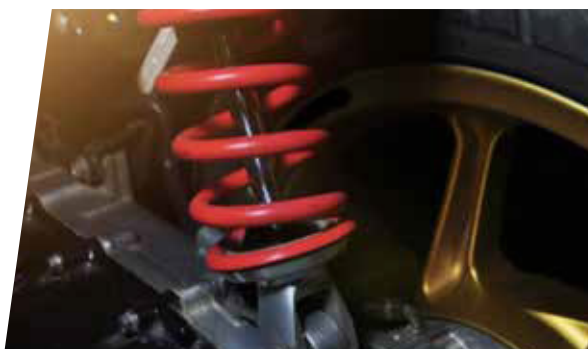
Chemical composition, diameter, UTS, RA %, decarburization, deep-etch test results and no. of paint marks against each coil (during inline eddy current test).

## LABELING

Product code, diameter, grade, coil no., coil weight, batch no., No. of EC marks, heat no. and manufacturer address.

## PRODUCT STORAGE / HANDLING

Wire coils must not be dragged and must be handled carefully, to ensure no mechanical damages / rubbing on wire surface.





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## INDIAN OFFICES

### MUMBAI (HO)

Tata Steel Limited  
Wire Division  
16<sup>th</sup> Floor,  
R Tech Park Nirion Complex  
Western Express Highway Goregaon  
East, Mumbai 400063  
Tel: +91 22 66425200

### KOLKATA

Tata Steel Limited  
Wire Division  
52 Jawaharlal Nehru Road  
2<sup>nd</sup> Floor, Kolkata 700071  
Tel: +91 033 22825069

### CHENNAI

Tata Steel Limited  
Wire Division  
8<sup>th</sup> Floor, Sigapi Achi Building 1819,  
Rukmini Lakshmi pathi Road Egmore,  
Chennai 600008  
Tel: 044 66960026 / 27

### BANGALORE

Tata Steel Limited  
Wire Division  
Jubilee Bldg. A Wing.  
2<sup>nd</sup> Floor, 45 Museum Road,  
Bangalore 560025  
Tel: 080 66950000

### NEW DELHI

Tata Steel Limited  
Ground Floor,  
Mira Corporate Suites Plot No.1&2,  
Ishwar Nagar, Mathura Road,  
New Delhi-110065  
Tel: 011 23327072/73/74  
011 65544000

### HYDERABAD

Tata Steel Limited  
6<sup>th</sup> Floor, Gummideli Towers,  
1-10-39-To-44, Begumpet,  
Hyderabad-500016  
Tel: 040 66261020

### BHUBANESHWAR

Tata Steel Limited  
2/B, Fortune Tower  
Chandrasekharapur  
Bhubaneswar-751023  
Tel: 09040093374

### AHMEDABAD

Tata Steel Limited  
172/2, Premchand House Annexe,  
Ashram Road,  
Ahmedabad, 380009  
Tel: 079 66612600

### JAIPUR

Tata Steel Limited  
G-Business Park, 6<sup>th</sup> Floor, D-34.  
Near Agrasen Circle, C-Scheme,  
Subhash Marg, Jaipur- 302001  
Tel: 0141 6518572

### INDORE

Tata Steel Limited  
3<sup>rd</sup> Floor, NRK Business Park,  
B-1, Scheme No. 54.  
Vijayanagar  
Square, Indore 452010  
Tel: 073 16450191

### PUNE

Tata Steel Limited  
Office no. 6 & 7, Second Floor  
Wing B, Great Eastern plaza  
Old Airport road, Yerwada,  
Pune - 411 006  
Tel: 020 65600554

### COIMBATORE

Tata Steel Limited  
New No. 97, Race Course Road,  
Opp. KG Theatre  
Coimbatore 641018  
Tel: 042 22309028 / 58

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## OVERSEAS OFFICES

### USA

Tata Sales International  
Clo Tata Consultancy Services  
379 Thomall Street, 4<sup>th</sup> Floor Edison  
New Jersey 08837, USA  
Tel: 201 602 3405  
Mr. Anil Bhandari  
Email: anil.bhandari@tatasteel.com

### USA

Tata Sales International Americas  
475, North Martingale Road  
Suite 400, Schaumburg  
Illinois, 60173, USA  
Tel: 847 619 0400 ext.729  
Tel: 847 592 3729 (Direct)  
Mobile: 630 886 1172  
Mr. Rajiv Ranjan  
Email: rajiv.ranjanGT85@tatasteel.com

### UK

Tata Sales International  
4<sup>th</sup> Floor, 30 Milibank  
London SW1P4WY  
Tel +44 7876 390066  
Mr. CR Kulkarni  
Email: crkulkarni@tatasteel.com

### DUBAI

Tata Sales International  
(Middle East)  
FZE P.O. Box 18294  
Jabel Ali, Dubai, UAE  
Tel +971 (4) 8873232  
Mr. Shuja Haque  
Email: shuja.haque@tatasteel.com

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## MANUFACTURING PLANTS

### INDIA

Tata Steel Limited  
Tarapur Complex  
MIDC Tarapur Industrial Area  
Thane 401 506  
Tel: 91 (2525) 295000

### THAILAND

TSN Wires Co, Ltd  
Rasa Tower 1, 14<sup>th</sup> Floor 555  
Phaholyothin Road Chatuchak  
Bangkok 10900  
Tel: (+66) 2937 0060  
Fax: (+66) 2937 0068 2937 0069  
Email: tan\_sale@tshwires.co.th  
Website: www.tsnwires.co.th

### THAILAND

The Siam Industrial Wire Co. Ltd.  
555 Rasa Tower, 14<sup>th</sup> Floor,  
Phaholyothin Road,  
Chatuchak, Bangkok 10900  
Tel: (66-2) 9370068 / (66-2) 9370069

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### TATA STEEL GLOBAL WIRES BUSINESS

Tata Steel Limited - Wire Division, 16<sup>th</sup> Floor, R Tech Park  
Nirlon Complex, Western Express Highway, Goregaon East, Mumbai 400 063 Tel: +91 22 6642 5200  
E-mail wiron.marketing@tatasteel.com www.tatawiron.com