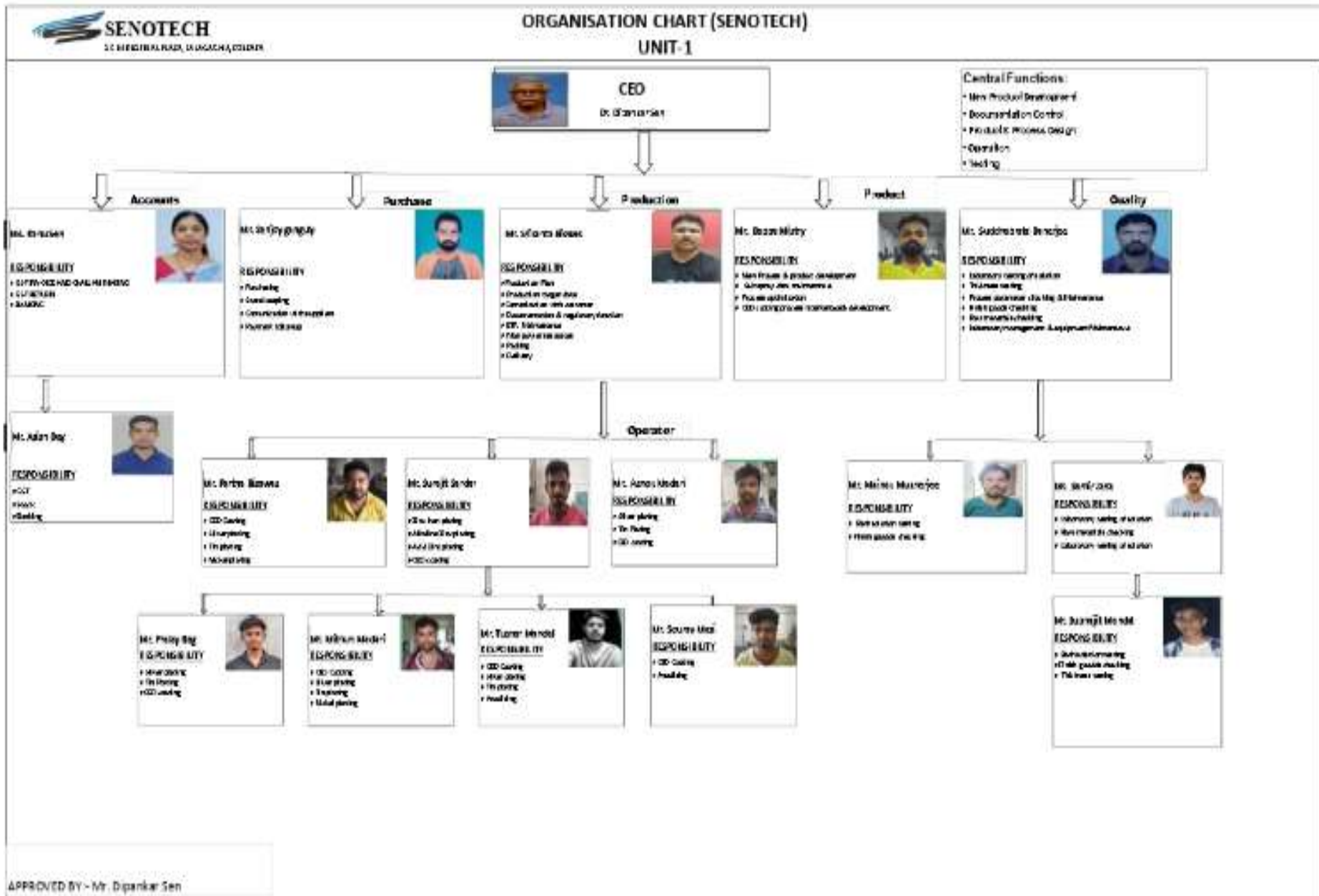




- **Founded in 2001 under the leadership and long experience of DR DIPANKAR SEN with CHEMTREAT TECHNOLOGIES, a surface coating chemicals manufacturing company serving chemicals and technology to pan india and other countries , Senotech began with a mission to provide high-quality, durable, and innovative surface coatings job work services for industries to use in outside of country**
- **SENOTECH and CHEMTREAT TECHNOLOGIES probably is the only company having knowledge of coating chemicals composition and process technologies simultaneously . For the insight knowledge of chemicals formulation and importance of raw materials ingrediants, SENOTECH is champion to modulate and developpe the tailormade coating process as per requirement smartly.**

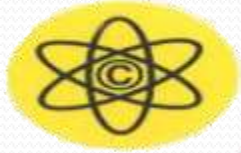
Senotech Organization Structure





CHEMTREAT TECHNOLOGIES

- **The R & D driven surface coating chemicals manufacturing unit having chemicals composition for**
- Zinc and Zinc alloy plating , trichrome and hex chrome conversion coating
- Bright and Dull Nickel plating
- Bright and hard chrome plating
- acid and alkaline (non cyanide) copper plating
- brass plating
- silver plating



Chemtreat Chemicals

- Tin plating
- Phosphating IS 3618 class A,B,C
- Anodizing coating with electrocolour & Alochrome
- CED (cathodic electro deposition) coating
- Zinc Flake coating
- S S electropolishing process chemicals
- Electroless Nickel(high, mid,low phosphorous)coating
- Powder coating chemicals

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Chemicals make by Chemtreat Technologies



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Chemtreat Chemicals in international market



Senotech with Cemtre Technologies

- Senotech is a sister concern of Surface coating chemicals manufacturing and coating consulting company CHEMTREAT TECHNOLOGIES based in kolkata , West Bengal.
- Chemtreat Technologies manufacturing various coating chemicals and providing technical support to all over india, exporting various countries since 2001 under the leadership and experience of DR Dipankar SEN.

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TEAM conference gathering



Team workforce in conference



The DREAM

- Based on the knowledge on nature of chemicals & application process under the backdrop of CHEMTREAT TECHNOLOGIES,
- Senotech started with a dream to provide different surface coating requirement under the one umbrella. This plan continues with getting up to date knowledge and technology of international standard supported by knowledge bank , library facilities , laboratory testing facilities & skilled manpower to fulfill with the modern industries demands.

Our Mission

- Our mission is to revolutionize the surface coating industry by providing innovative, reliable, and eco-friendly solutions. We aim to enhance product longevity, improve efficiency, and reduce environmental impact through advanced coating technologies.

SENOTECH coating services

- 1) Zinc and zinc alloy plating
- 2) Zinc flake coating
- 3) Cad coating
- 4) Silver plating
- 5) Tin plating
- 6) Copper plating
- 7) Electroless Nickel plating
- 8) Dull Nickel plating
- 9) Bright nickel plating



Senotech certificates



Certificate of Registration

THIS IS TO CERTIFY THAT

SENOTECH

M.Z.I. INDUSTRIAL ESTATE, SANKHARIPOTA MAIN ROAD, KALAGACHIA, KOLKATA, PIN.- 700063, WEST BEBGAL, INDIA

Has been assessed and found to conform-to the requirement of The Quality Management System

ISO 9001:2015

For the following Scope:

MANUFACTURING, TRADING OF CHEMICALS & CHEMICAL COATING SERVICES

CERTIFICATE NUMBER: IMC-QMS-B-9214K

Date of Initial Registration : 22.07.2023 Date of Issue : 22.07.2023
 1st Surveillance on or Before: 22.06.2024 Valid Until : 21.07.2026
 2nd Surveillance on or Before: 22.06.2025

(Subject to the company maintaining its system to the required standard)
 *After Successful completion of surveillance audit, New certificate shall be issued.



Batra
 Certification Manager



(Further Clarifications regarding the scope of the certificate & the applicability of standard requirements may be obtained by consulting the organization. *This is an accredited certificate sanctioned for issue by INTERNATIONAL MILLENNIUM CERTIFICATIONS (IMC) in accordance with the requirements of ISO/IEC 17021-1:2015. The Validity of the certificate can be verified by checking the Directory of ACCREDITATION COUNCIL FOR CERTIFICATION BODIES maintained at the ACCB Website www.accreditationboard.org*)

UDYAM REGISTRATION NUMBER

UDYAM-WB-10-0000477

NAME OF ENTERPRISE

SENOTECH

TYPE OF ENTERPRISE*

SNo.	Classification Year	Enterprise Type	Classification Date
1	2025-26	Micro	01/04/2025
2	2024-25	Micro	27/04/2024
3	2023-24	Micro	09/05/2023
4	2022-23	Micro	26/06/2022

MAJOR ACTIVITY

MANUFACTURING

SOCIAL CATEGORY OF ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	SENOTECH

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	6/4	Name of Premises/ Building	Badamtala Mondalpara
Village/Town	P.O. Joka	Block	P.S. Hnrdevpur
Road/Street/Lane	Kolkata	City	Kolkata
State	WEST BENGAL	District	KOLKOTA , Pin 700104
Mobile	9836315110	Email:	drsen1964@gmail.com

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Research & Development

R & D is first and prime activity before accepting any project. Its the heart of SENOTECH



Quality Awareness & Control

Quality control and awareness is one of the key activities for complaint free product deliveries





Pilot Development work

Every development requires pilot activities before validation for production in our pilot





Lab Testing equipment





SENOTECH Unit I

Facilities available for

- 1) Acid zinc plant
- 2) Alkaline Zinc plant
- 3) Alkaline Zinc Iron alloy plant
- 4) Alkaline Zinc Nickel alloy
- 5) Acid Zinc cobalt
- 6) Zinc Flake Coating
- 7) Electroless Nickel



SENOTECH Unit II

- **Facilities available for**
- 1) Cad coating
- 2) Silver plating
- 3) Tin plating
- 4) Anodising process with various color
- 5) Copper plating
- 6) Electroless Nickel plating
- 7) Dull nickel plating
- 8) Bright nickel electroplating



SENOTECH Unit III

- **Facilities available for**
- 1) Powder Coating
- 2) Achroma
- 3) Phosphating
- 4) S.S. Polish



Training & Seminars

- Seminars on different surface coating process to our staffs and workforces are regular activities .
- Seminars for different organizations who are working with us is also a part of our activities



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Internship & Empowerment

Theoretical and on -job internship to chemistry students is one of the premium activities we are interested to provide



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On-Job Training

Theoretical and on -job training are regularly provideing for skill development for various coating process



Skill & Empowerment



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Alkaline Zinc plating

- Providing higher life of zinc coated parts , fasteners etc using alkaline cyanide free , chloride zinc process ,



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Alkaline zinc with trichrome





Zinc Cr₃+ Passivation - option

Process	Type	Specialties	Resistance to white rust (hrs.)
MAXPAS TB 14	Blue	Thick film (60-100 nm)	25
MAXPAS TB 140	Blue	Thick film (200-300 nm) due to salt precipitation	120
MAXPAS TY 170	Iridescent	Thick film (300-400 nm) ~ more yellowish deposit → Replaces Cr ₆ + yellow passivation	200
MAXPAS TBK 150	Blue	Thick film (200-300 nm)	200

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Alkaline Zinc -Iron alloy coating

zinc -iron alloy plating, zinc-nickel alloy plating, zinc -cobalt alloy plating with hexchrome & trichrome passivation ranging from blue, yellow, black & olive appearance



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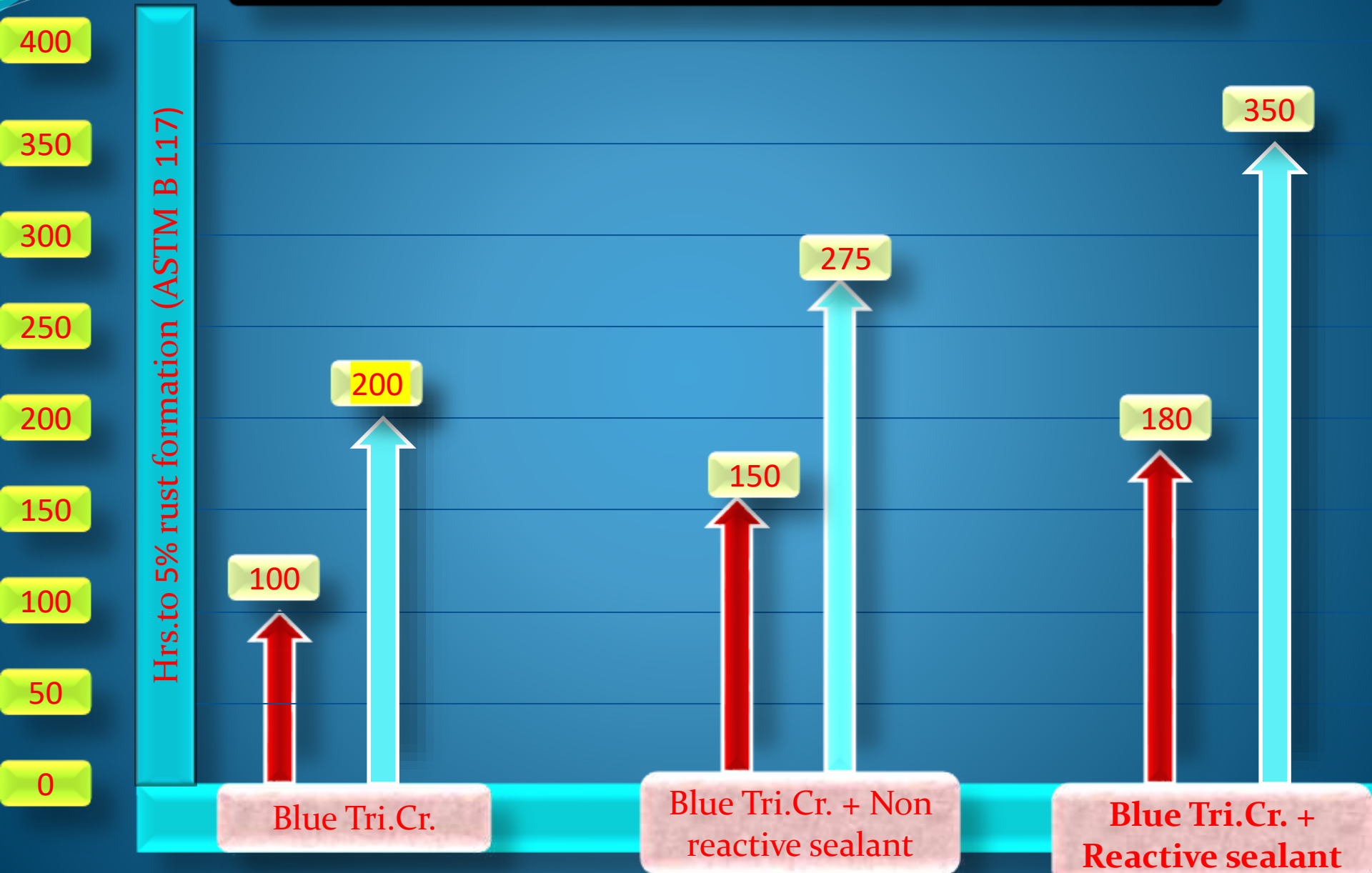
Alkaline zinc -nickel with trichrome





NSS TEST WITH SEALERS

Deposit thickness : 12 μ with thermal shock for 2 hrs. at 150° C



Corrosion resistance – a comparison

Yellow Passivated component

(Deposit Thickness : 8-10 μm)



350

350

300

250

200

150

100

50

0

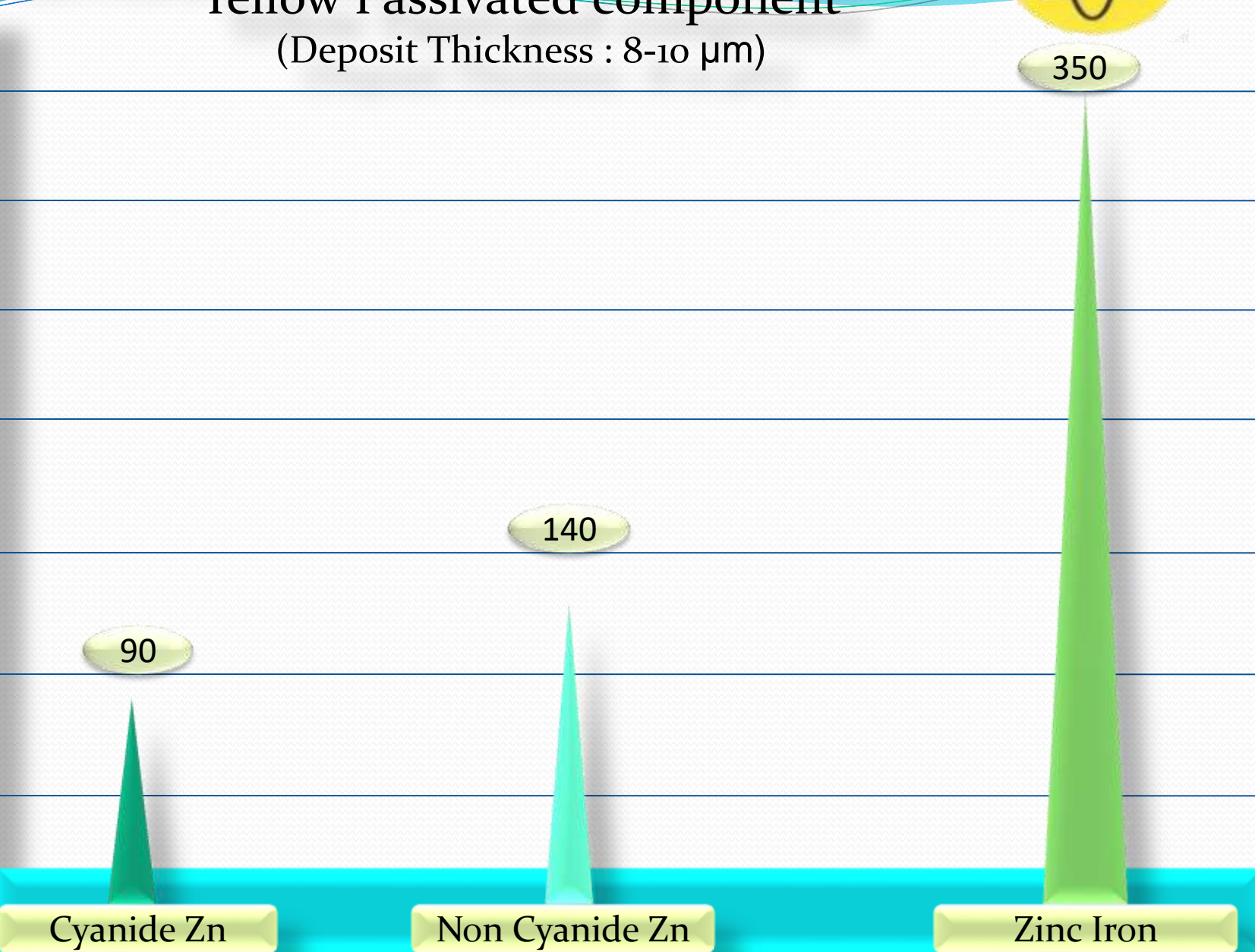
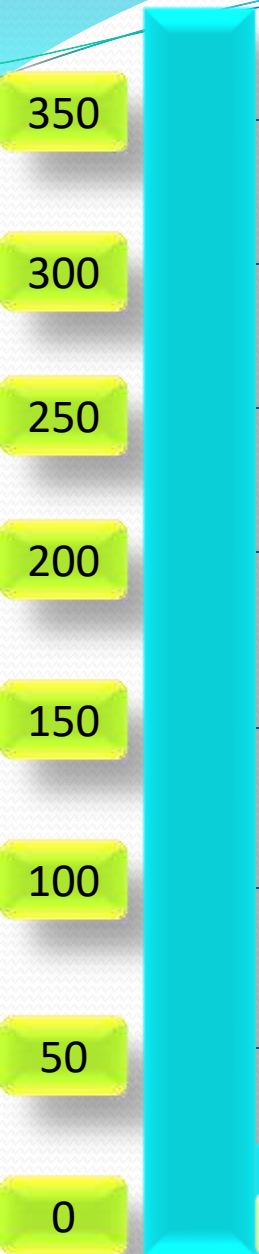
90

140

Cyanide Zn

Non Cyanide Zn

Zinc Iron



Zinc-Nickel coating SST



Process	Type	Specialties	Resistance to white rust (hrs.)
Zinc -Nickel	Blue	Thick film (80-140 nm)	150
Zinc-Nickel	Black	Thick film (150-350 nm)	300

Zinc -Nickel salt spray analysis

(ASTM B117)



Deposit Thickness : 10-15 μm

Finish	White Rust	Red Rust
Non chromated	40-50	700-725
Blue	90 -100	800-850
Yellow	350 - 400	950-1000
Black	300 - 325	900 - 950

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Sulphuric acid anodizing

- Sulphuric acid anodizing process on aluminium and electrocolouring is requirements for various industries.



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Sulphuric acid anodizing & dye





Chromic acid anodizing

- Chromic acid anodizing is the requirement



CED(Cathodic Electrophoretic Deposition) Coating

- Advanced corrosion protection for industrial applications with epoxy , polyurethane or acrylic coating having high neutral salt spray life nearly 1000 hours. We offer Black coating, Green coating etc



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Automation of CED Coating Plant



Powder Coating

- Providing a smooth, durable, and aesthetic finish of glossy and matte. on both aluminium and steel components



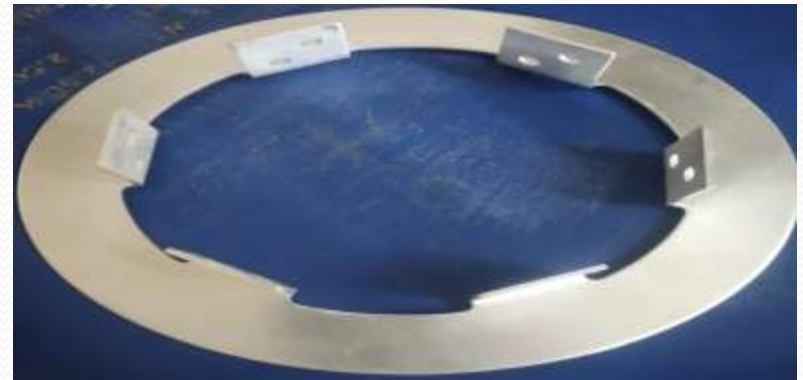
Zinc Flake Coating

- High-performance coating for extreme environments replacing hot dip galvanizing on fasteners, spring washers etc. The process provides white silver, black finish with high life time nearly 1000 hours.



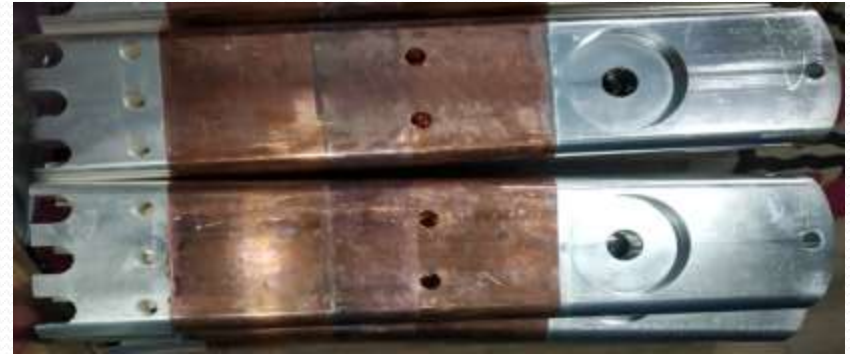
Silver Plating

- Silver plating is a premium choice for enhancing electrical conductivity, reducing friction, and preventing oxidation. Commonly used in aerospace, electronics, and medical industries, silver plating ensures top-notch performance and longevity. Our expert plating service provides a flawless, bright finish with outstanding durability. Elevate your components with the best silver plating service in the industry!



Tin Plating

- Tin plating offers excellent solderability, corrosion resistance, and chemical stability, making it perfect for electrical and food-grade applications. Our tin plating service guarantees a clean, non-toxic finish with superior adhesion. Whether for electronics, connectors, or food equipment, tin plating provides a cost-effective and highly reliable solution. Choose tin plating for long-lasting performance!



Copper Plating

- Copper plating enhances conductivity, adhesion, and corrosion resistance, making it ideal for electrical components, engineering applications, and decorative finishes. Our high-quality copper plating service ensures precision and durability, delivering a superior finish that improves both aesthetics and functionality. Choose copper plating for a high-performance solution that meets your industrial needs!



Phosphate coating IS 3618

- Class A coating of IS 3618 is available with rust preventive oil seal



Dull nickel Plating

- Nickel plating provides superior corrosion resistance, wear protection, and an attractive finish. It is widely used in automotive, aerospace, and electronics industries for enhancing durability and performance. Our advanced nickel plating process ensures a smooth, uniform coating that boosts the lifespan of your components. Whether you need a decorative finish or industrial-grade protection, our nickel plating service is the perfect solution!



Electroless Nickel Plating

- EN coating with Phosphorous content (%) range from 6 - 12 is possible



Bright nickel Plating

- Bright nickel plating followed by chromium flash deposition is available



Alochrome on aluminium parts

- Both hex chrome and phospho chrome (light green) is suitable for corrosion resistance on engineering parts



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Awareness program on zinc -iron coating process is going on



Senotech Support

- **At Senotech, we don't just manufacture – we treat the clients as our partner and try to bring their ideas to life. Our consulting division offers end-to-end solutions for plant setup, product development, and technology/process improvement, backed by years of hands-on manufacturing and engineering experience.**
- **From Planning to Production – We Build Manufacturing Ecosystems**
- **We help to establish new manufacturing facilities or expand existing ones. Our turnkey solutions cover every stage of the plant development process:**

Senotech Hope

- We, in SENOTECH hope to cater best coating services always which will be acclaimed by national and international clients
- We also hope to establish our technical support and services in other industrial parts like Pune, Bangalore, Baroda in future.
- We are expecting to send technical and skilled manpower in different countries .

Senotech Journey

- We are
- DREAMING
- DREAMING continuously
- Trying to LEARN
- Learning from our FAULTS
- Trying to UPGRADE



- Thanks