



GUJARAT FLUOROCHEMICALS LIMITED
FLUOROPOLYMERS & LIB RAW MATERIALS

ABOUT

Headquartered in Noida, India, Gujarat Fluorochemicals Limited (GFL) is an Indian Chemicals Company with over 30 years of expertise in Fluorine Chemistry

An ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified organisation

Established player in Fluoropolymers, Fluorospecialities, Refrigerants and Chemicals

1989 - commencement of Company's first commercial operations with India's largest Refrigerant manufacturing unit at Ranjitnagar, Gujarat, India

2007- started operations at Dahej, Gujarat, India - manufacturing facility for Fluoropolymers

Vertically integrated Operations - from natural minerals to Fluoropolymers

Three manufacturing facilities in India, Fluorspar mine in Morocco, offices and warehouses in Europe and USA

Accredited by CRISIL, India's largest rating agency - AA (stable) rating for long term credit and A1+ rating for short term credit

OUR BUSINESSES



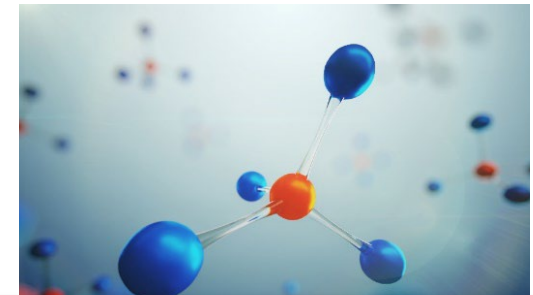
FLUOROPOLYMERS



FLUOROSPECIALITIES



REFRIGERANTS



CHEMICALS

FLUOROPOLYMERS PORTFOLIO GROWTH

An **INOXGFL** Group Company
BEYOND INFINITY



INOFLON[®]
PTFE | FEP | PFA

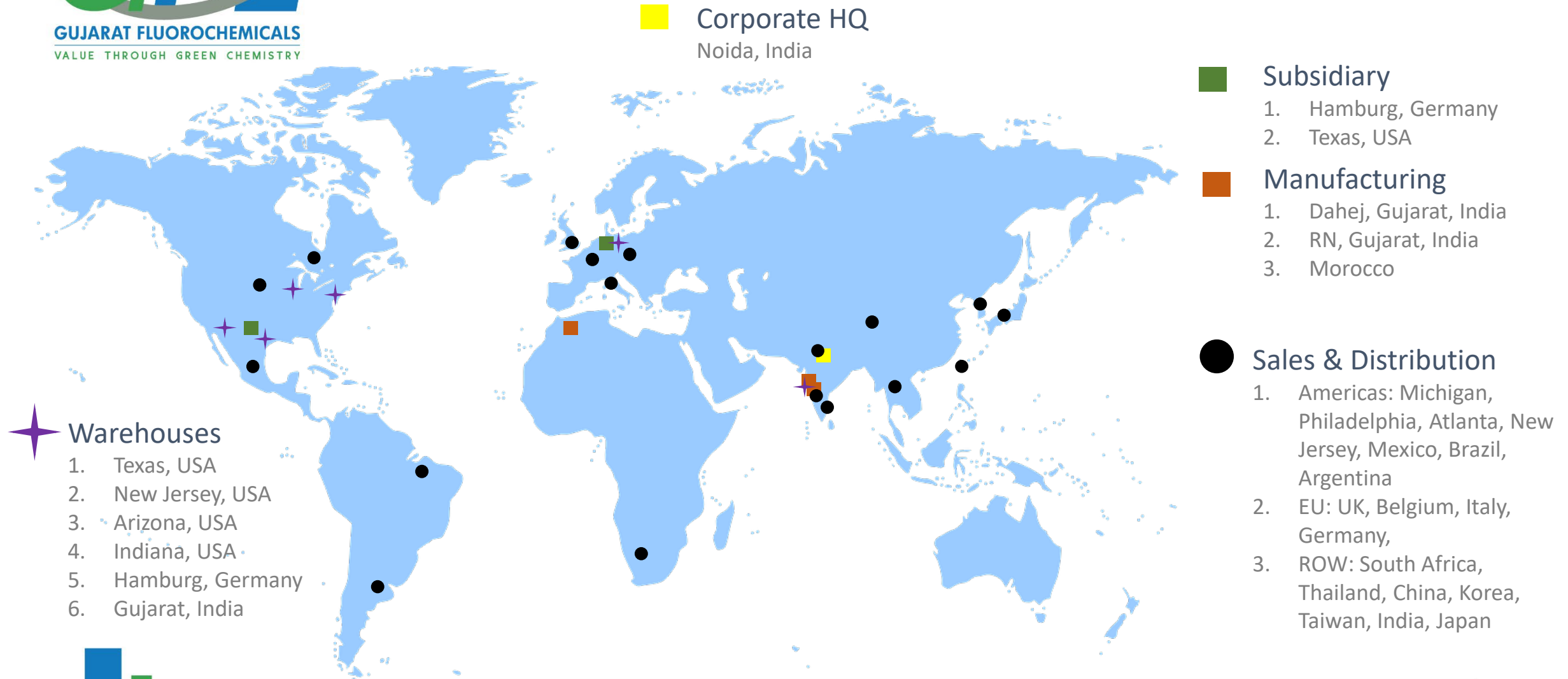
FLUONOX[®]
FKM

INOLUB[™]
FLUOROPOLYMER ADDITIVES

INOFLAR[™]
PVDF

GLOBAL PRESENCE

An **INOXGFL** Group Company
BEYOND INFINITY



THE GFL ADVANTAGE



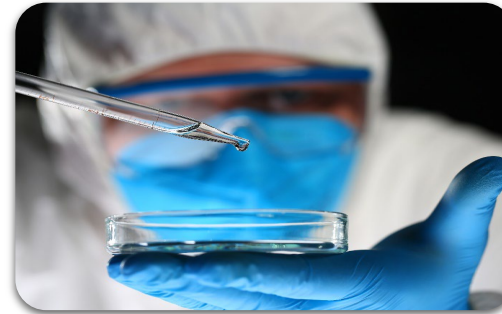
INTEGRATED OPERATIONS

Vertical integration from natural minerals to Fluoropolymers and Fluorospecialities.



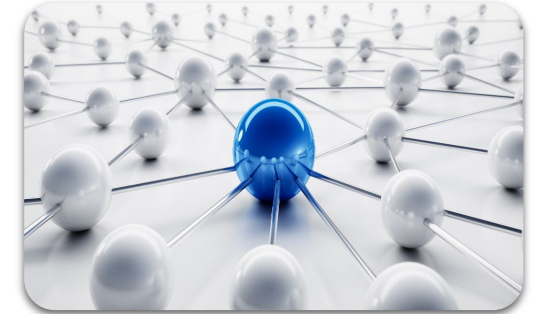
CUSTOMER ENGAGEMENT

New application development through collaborative technical-engagement with customers



R & D

State of the art R&D facilities leading to gradual expansion of Fluoropolymers portfolio.



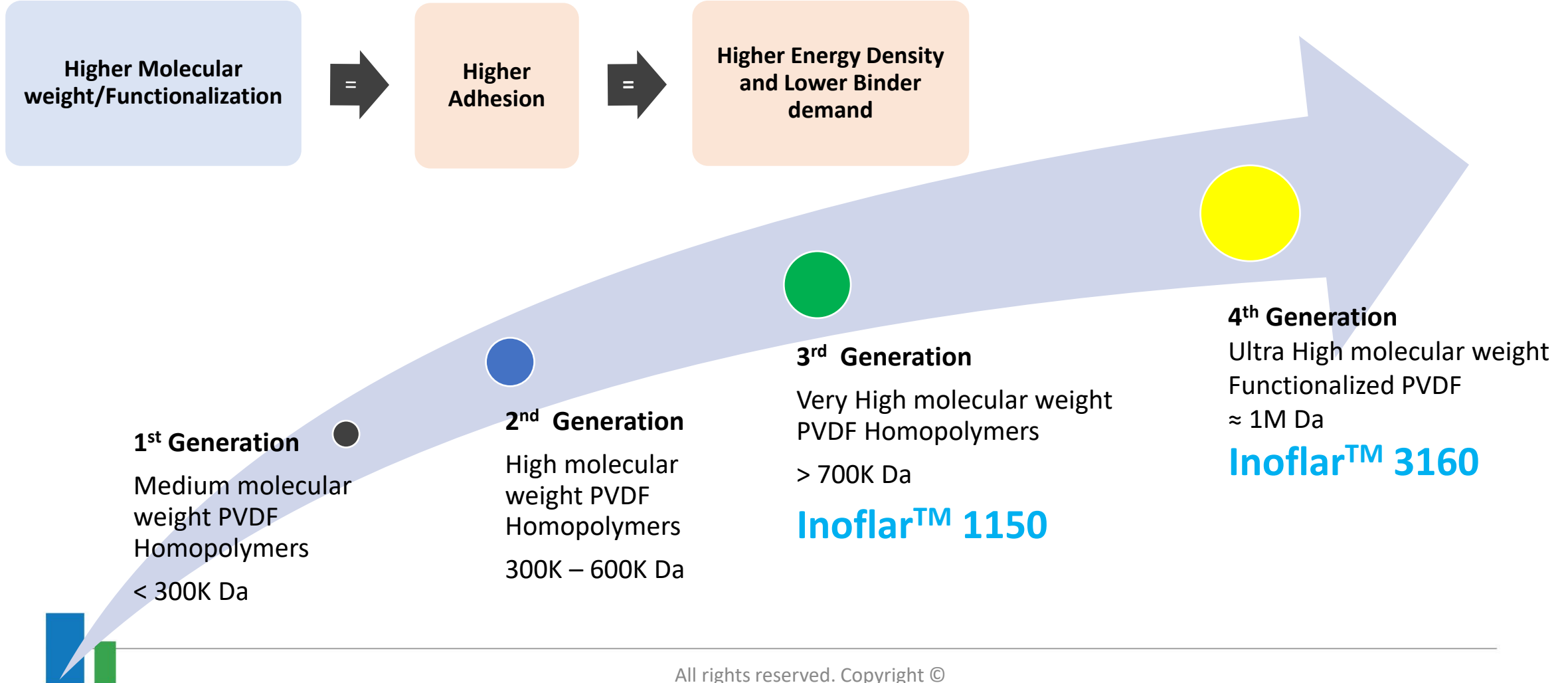
ESTABLISHED IN KEY MARKETS

Sustained presence as a reliable supplier across the globe.

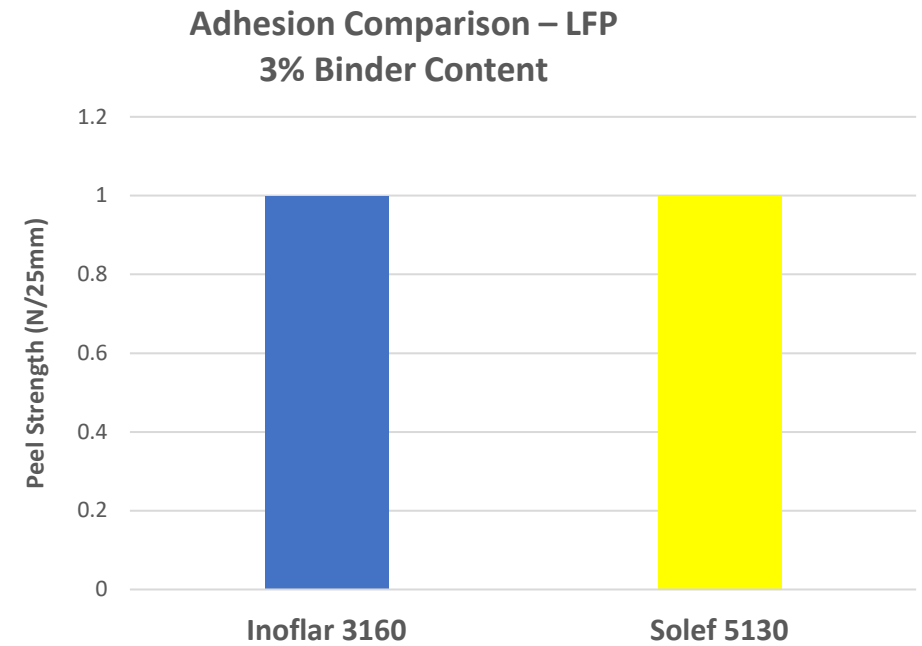
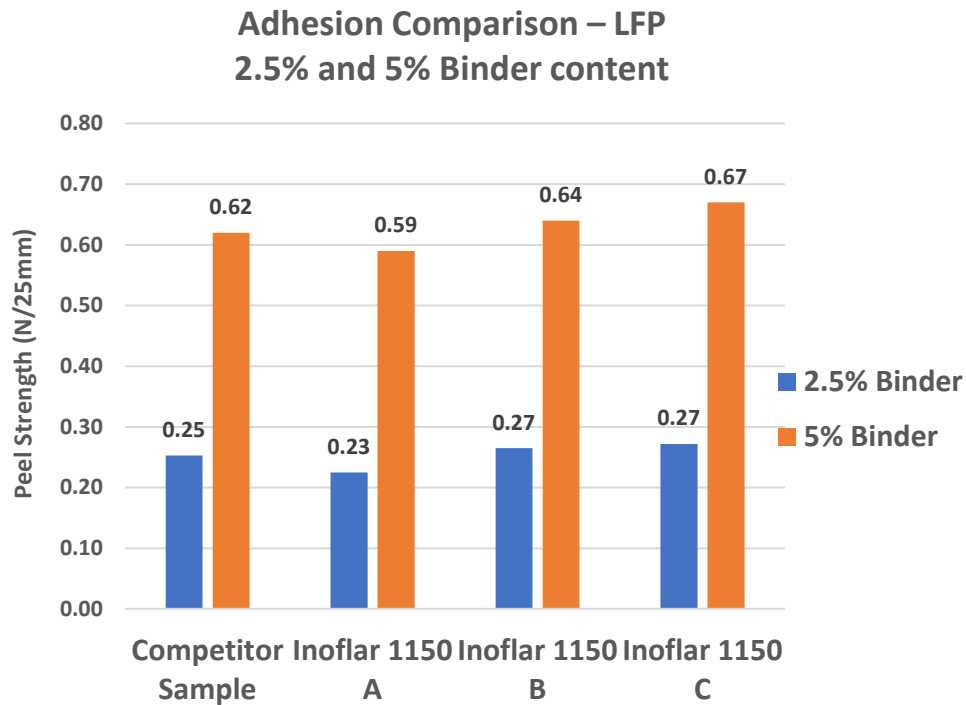
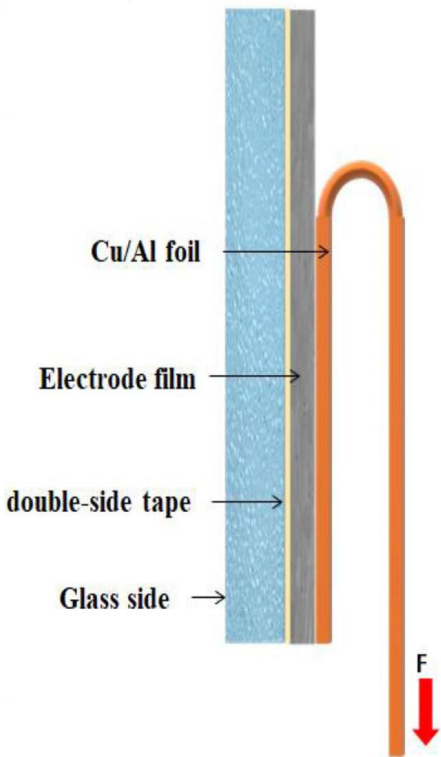
LIB Supply Chain Material Offerings

Sr. No.	Material Offered	Comments
1	Electrode Binder	<ul style="list-style-type: none"> • INOFLAR™ PVDF binders for Li-ion Battery Electrodes • INOFLON® PTFE binder for dry coating process • Commercially available
2	Fluoropolymer Sealing solutions	<ul style="list-style-type: none"> • Fluoroelastomer – FKM • Perfluoroalkoxyalkane - PFA
3	Fluoropolymer additives for Flame retardancy	<ul style="list-style-type: none"> • INOLUB™ R Series & ISAN Additives
4	Lithium Hexafluorophosphate (LiPF ₆) Salt	<ul style="list-style-type: none"> • Manufacture of Lithium Hexafluorophosphate LiPF₆ required as Electrolyte component in Lithium ion Batteries • Commercial Launch in 2023
5	Electrolyte Formulations	<ul style="list-style-type: none"> • Manufacture and supply, customized LiPF₆ based Electrolyte formulations as per Customer's recipe from our state of the art formulation facility in India • Development under-way

Inoflar PVDF Binders



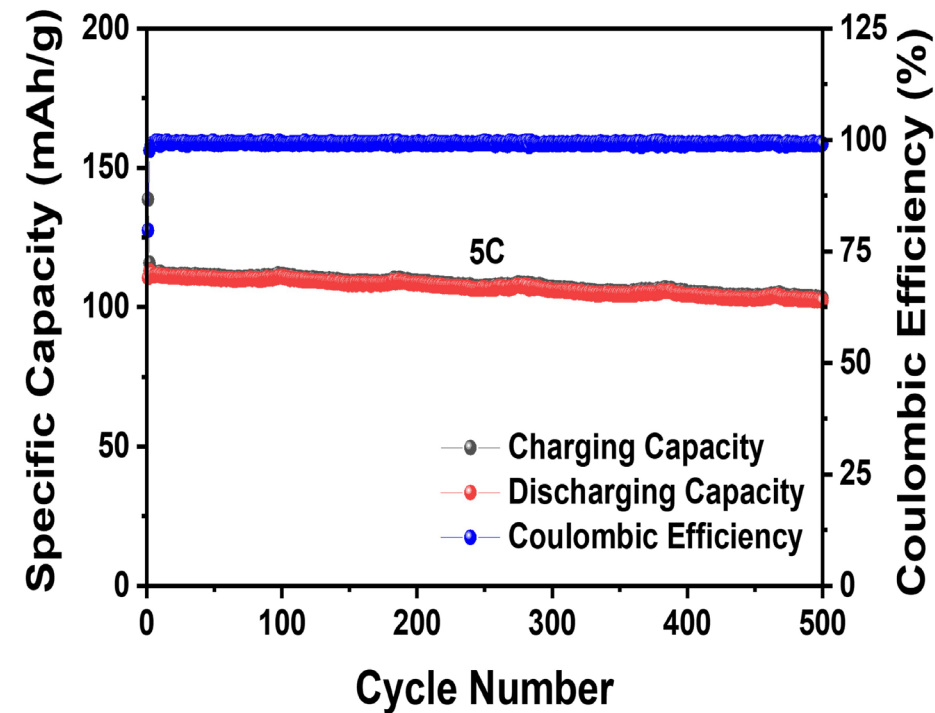
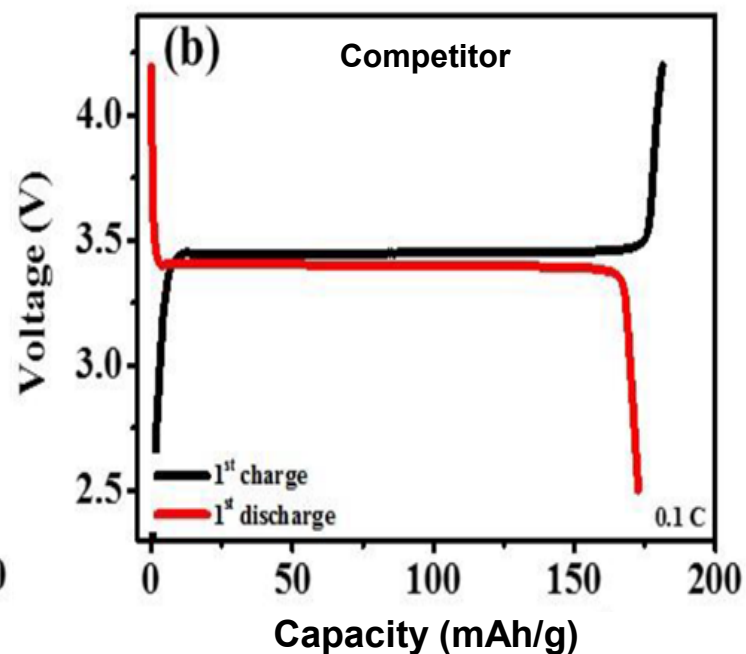
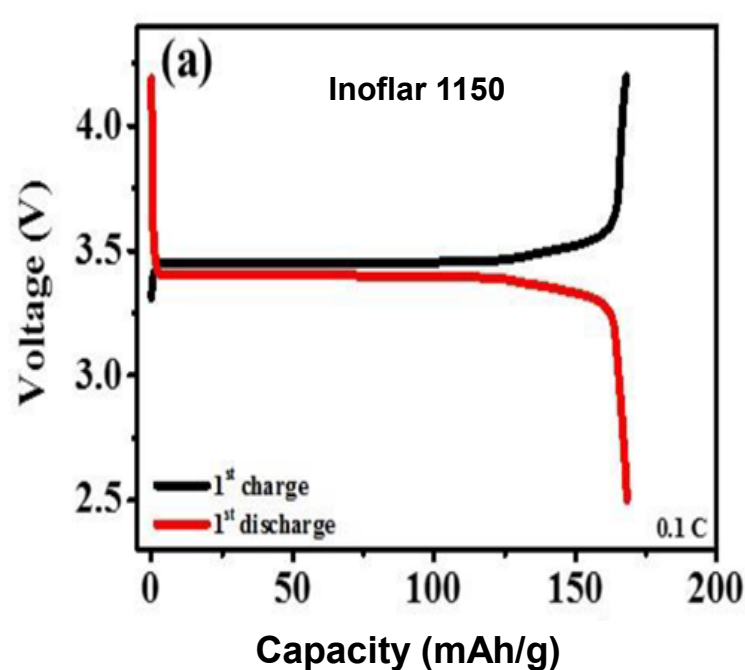
Adhesion Comparison



- Inoflar™ 3160 & Inoflar™ 3160 exhibits adhesion characteristics comparable to competitor binder grades



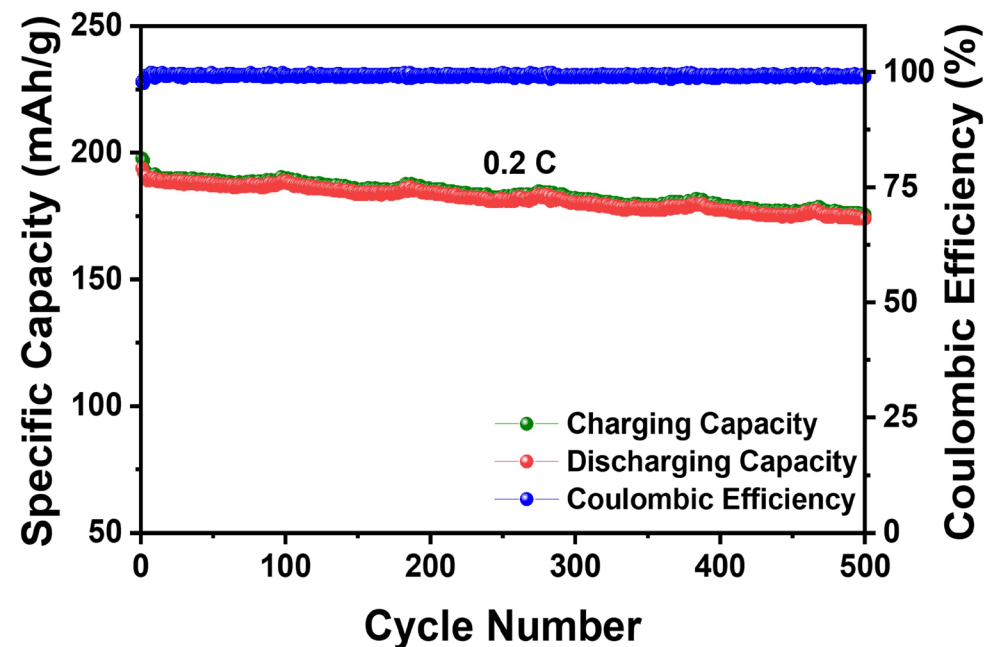
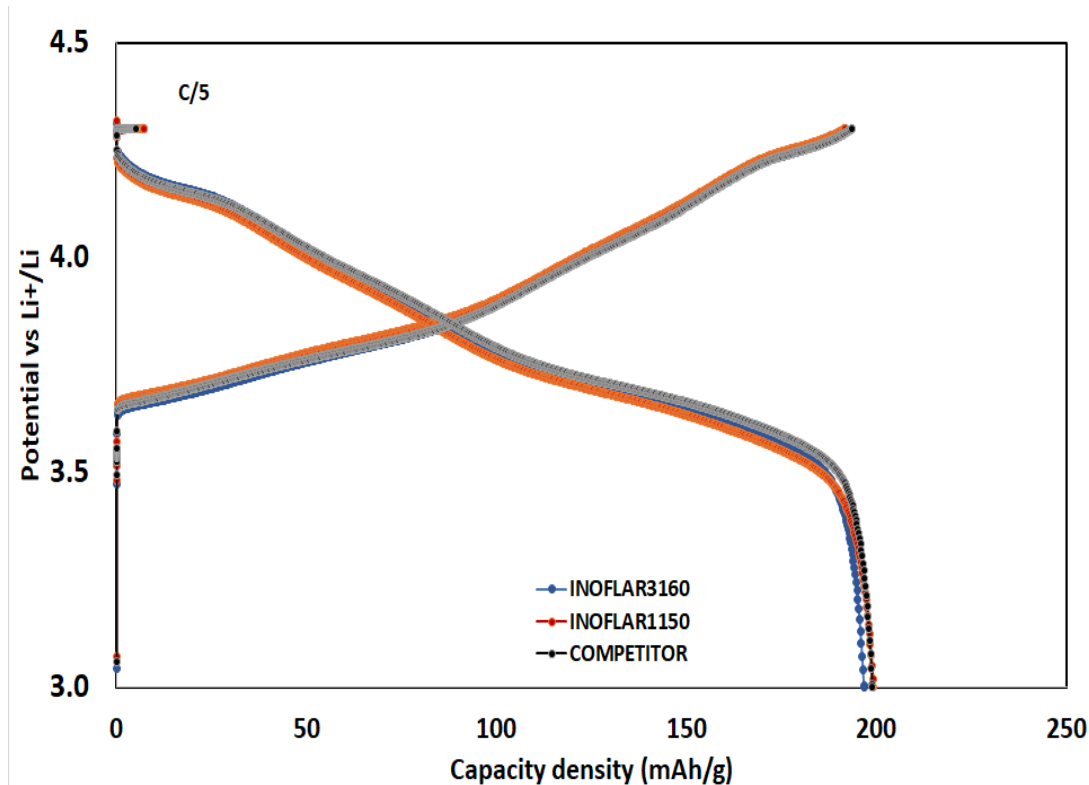
Electrochemical Performance of LFP cathode



First Cycle	Reversible Capacity, (0.1C)	CE%
INOFLAR 1150	169 mAh/g	98%
Competitor	172 mAh/g	96%

1C = 170 mA g⁻¹

Electrochemical Performance of NMC cathode



First cycle	Reversible Capacity, (C/5)	CE%
INOFLAR 3160	203 mAh/g	91%
INOFLAR 1150	208 mAh/g	92%
Competitor	203 mAh/g	89%

1C = 200 mA g⁻¹



THANK YOU

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