



SRF
Specialty Chemicals Business

Partners Beyond Products

Specialty Chemicals & Intermediates

....

Contract Research and Custom Synthesis

....

Contract Manufacturing



With an annual turnover of ₹14,358 crore (US\$ 1.7 billion), the company's diversified business portfolio covers Fluorochemicals, Specialty Chemicals, Performance Films & Foil, Technical Textiles and Coated and Laminated Fabrics. Anchored by a strong workforce of over 9,000 employees from different nationalities working across thirteen manufacturing plants in India and one each in Thailand, South Africa and Hungary, the company exports to 100+ countries.

Equipped with state-of-the-art R&D facilities, SRF has filed 481 patents for R&D and technology so far, of which 151 have been granted.

Our Diversified Business Portfolio



SPECIALTY CHEMICALS BUSINESS

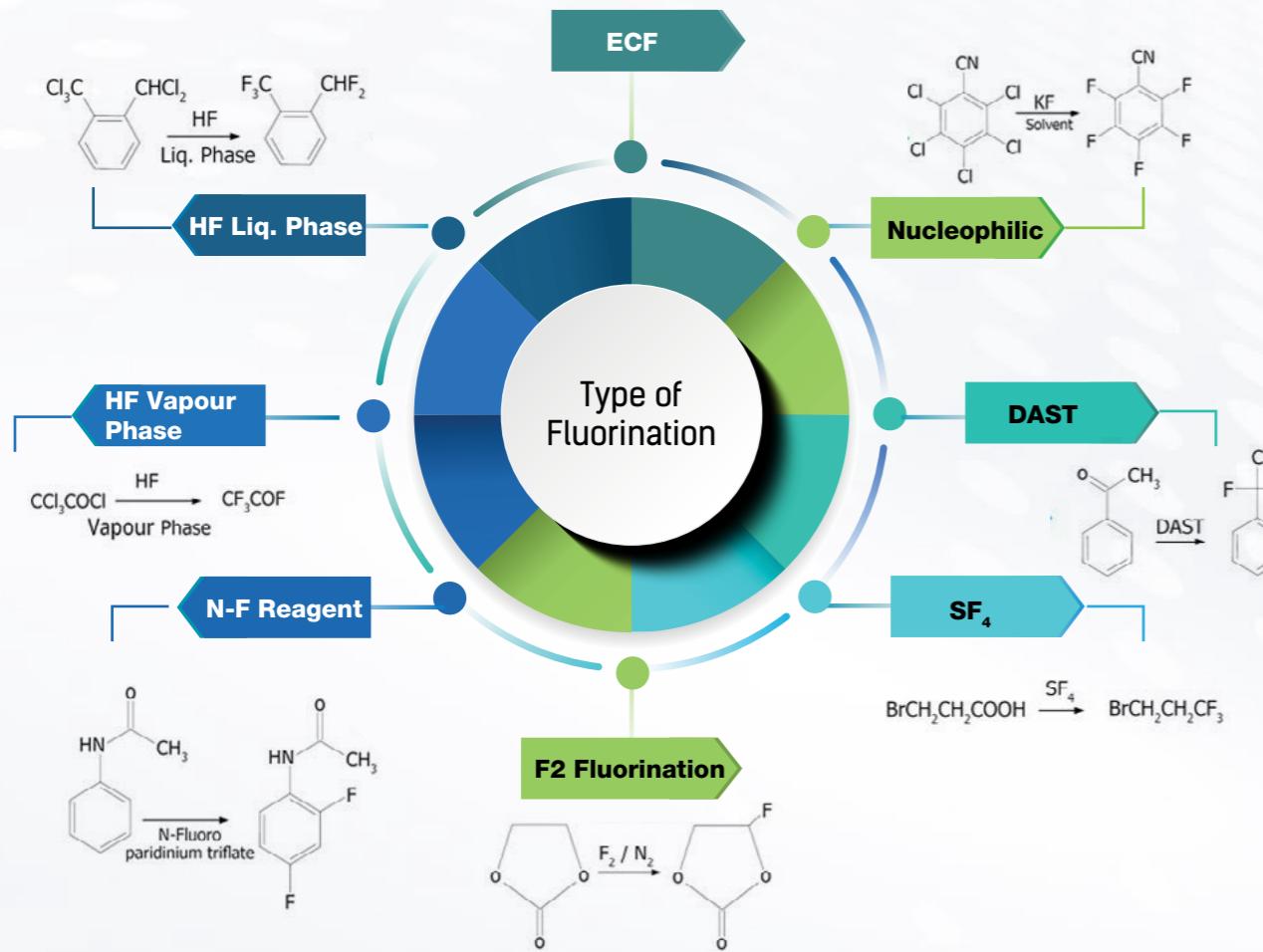
VALUE ADDITION BEYOND THE OBVIOUS

With more than 30 years of experience in Halogen chemistry, SRF's Specialty Chemicals Business commands an enviable reputation for its capabilities in the development and production of advanced intermediates for Agrochemicals, Pharmaceutical, Electronics, Battery Chemicals and Performance Applications.

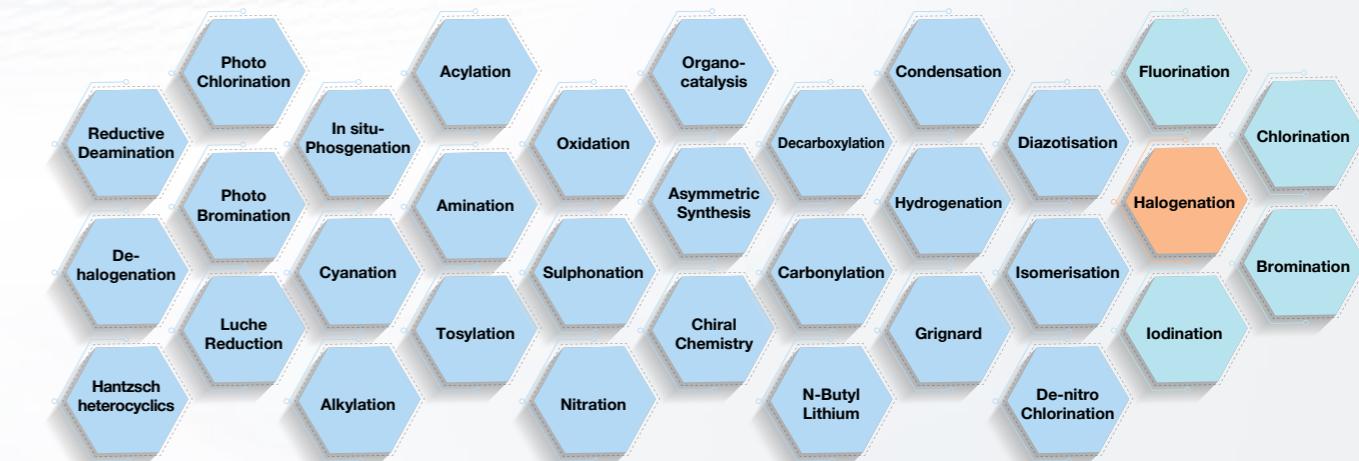
Building from our initial expertise in Fluorine chemistry and a deep knowledge in several platform chemistries, the Business now offers sustainable solutions to a variety of customer needs. To support this vision, SRF has invested substantially in people, assets and capability building; in turn creating expertise in a growing number of platform chemistries, in agile process development and rapid project implementation for specialty products.

AREA OF EXPERTISE

EXPERTISE IN FLUORINATION CHEMISTRY



EXPERTISE IN OTHER CHEMISTRIES



Pressure
60 Bar



Pyrolysis
1000°C



Cryogenic
-90°C



SS/Glass-lined/Hastelloy/Silicon Carbide/Graphite/PVDF/PTFE /Inconel/Monell

RESEARCH AND DEVELOPMENT

**We don't just follow chemistries;
We innovate for future generations.**



Driven by our state-of-the-art R&D labs, in-house plant design and project management teams, we have commercialised more than 125 molecules, with another 50 molecules at different stages of development and commercialisation.

We have more than 500 people currently engaged in R&D engineering, and scale-ups. SRF offers novel technology to many innovators of the world and ensuring strong Intellectual Property creation and protection.



PROCESS DEVELOPMENT, ENGINEERING AND SCALE-UP

END-TO-END Expertise

SRF provides an integrated service from research (process development) to kilo-scale synthesis to commercial scale supply. The in-house labs are also equipped with cutting-edge Safety & Scale-up Systems. The in-house engineering team has rich experience in the development and commercialisation of complex chemistry molecules with a strong focus on Environment, Health and Safety (EHS) & commitment to Total Quality Management. A customer-centric focus provides the highest value to the customer while supporting them through the lifecycle of their products.



PILOT PLANT

Nurturing Seeds of Innovation

The development work of new products and processes is well supported by state-of-the-art DCS-operated Pilot Plant. The plant is multi-purpose in nature and can handle Process Development work involving sub-atmospheric to high pressure (up to 50 kg/cm²) conditions over a wide range of temperature (-80C to >350C). The plant equipment includes a variety of Reactors, Distillation Columns, Heat Exchangers and related paraphernalia in various materials of construction.



MANUFACTURING & TECHNOLOGICAL EXPERTISE

DRIVEN BY ECO-FRIENDLY POLICIES

Operational Excellence at SRF

Global Standards in Manufacturing

- ISO 9001 : 2015
- ISO 14001 : 2015
- ISO 45001 : 2018
- ISO 14064 – Carbon foot-printing verification (1st Indian Chemical Co.)
- SA 8000 : 2014

Sustainability & Compliance

- Responsible Care Logo
- EcoVadis Sustainability Rating - Gold Medal
- TFS Audit – 93% of Score
- CDP Assessment
- Product Carbon Footprint Accounting

State-of-the-Art Infrastructure

- 30+ manufacturing facilities in Rajasthan & Dahej, Gujarat
- Fully integrated chemical complexes for end-to-end production
- cGMP-equivalent facilities for pharmaceutical intermediates
- Separate block for Agrochemical AIs and intermediates



SRF BY CHOICE

A variety of models are being followed to meet the specific needs of our customers:



01
PRODUCTS
(Specialty Chemicals & Intermediates)



02
COLLABORATIVE
RESEARCH &
MANUFACTURING



03
CUSTOM
SYNTHESIS



04
CONTRACT
MANUFACTURING

SRF USES FOLLOWING KEY PROCESS EQUIPMENT -

- SS316 Reactors
- Glass-lined Reactors
- Exotic MOC (Inconel, Monel, Hast-C, etc.) Reactors
- SS316 Distillation Columns
- Glass Distillation Columns
- Continuous Tubular Reactor
- S316 Agitated Nutsche Reactor
- SS316 Rotary Vacuum Paddle Dryers
- Centrifuges
- Tray Dryers
- High Pressure Autoclaves
- Electrical Oil-based Furnaces
- ATFD/WFE
- Clean rooms as per ISO Class 8 (150 sq.m area)

SRF has an effective quality assurance system which ensures the highest standards from sourcing the raw material to packaging of the finished goods. The production facilities have well-equipped Q&A Labs that are accredited with the National Accreditation Board for Testing and Calibration Laboratories (NABL), in alliance with International Laboratory Accreditation Co-operation (ILAC) to ensure the highest quality parameters for our customers.

- SRF Credo - 'Partners Beyond Products'
- Experience of over 30 years in Fluorination Chemistry
- An excessive range of Fluorination technologies and products designed to suit customer requirements
- Supply of Fluorinated Fine Chemicals, used as intermediates and organic building blocks
- Most production processes are deeply backward integrated, offering unparalleled control over the supply chain
- A strong EHS orientation and deep commitment to Total Quality Management (TQM) principles and Corporate Social Responsibility, for substantial growth
- A promise of complete confidentiality, IP protection and transparency; in areas of custom synthesis and contract manufacturing
- Customer satisfaction delivered through strong systems-oriented approach



SPECIALTY CHEMICALS PRODUCT LIST

TRIFLUORO (-CF₃) PRODUCTS

Trifluoroacetic acid
Ethyl trifluoroacetate
Methyl trifluoroacetate
Isopropyl trifluoroacetate
Trifluoroacetic Anhydride
Ethyl-4,4,4-trifluoroacetoacetate
Ethyl-3-amino-4,4,4-trifluorocrotonate
1,1,1-Trifluoroacetone
Trifluoroacetyl chloride
2,2,2-Trifluoroethyl amine
Trifluoroacetamide
Bis (Trimethylsilyl) trifluoroacetamide
Methyl trifluoropyruvate
Ethyl trifluoropyruvate

CHLORODIFLUORO (-CCLF₂) PRODUCTS

Chlorodifluoroacetic acid
Chlorodifluoroacetic anhydride
Methyl chlorodifluoroacetate
Ethyl chlorodifluoroacetate

DIFLUORO (-CHF₂) PRODUCTS

Difluoroacetic acid
Ethyl difluoroacetate
Methyl difluoroacetate
Ethyl-4,4-difluoroacetoacetate
Ethyl bromodifluoroacetate
1-Ethoxy-2,2-difluoroethanol

HEXAFLUORO (-CF₃)₂ PRODUCTS

Hexafluoro-2-propanol
Hexafluoropropylene oxide
Hexafluoroacetone trihydrate

OTHERS

2,3,5,6-Tetrafluorobenzyl alcohol
Bromopentafluorobenzene
Pentafluorobenzene
1-Bromo-4-fluorobenzene
2,3,4,5,6 Pentafluorobenzoic acid



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Manufacturing Facilities:

Bhiwadi:

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