



Amindon

FROM IDEA TO COMMERCIALIZATION

AMINDON OVERVIEW

FROM IDEA TO COMMERCIALIZATION

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Exhibit Space **517**



Amindon Business Philosophy



CORE CONCEPT

Provide customers with a convenient one-step process to enable successful **new product development and introduction.**



WHY CHOOSE AMINDON?

We provide **unique expertise** to make your new product development objectives successful.

We **enhance your competitiveness** through **chemistry innovation** and manage the new product development and introduction process so you can concentrate on what you do best.

The Amindon Advantage



- A convenient, single point of contact to manage new product development and introduction.
- Track record of successful **new product development**.
- Strong expertise in chemical technology and product development.
- A reliable and high-quality network of affiliated chemical manufacturers and laboratories.
 - Selected on basis of competence, capabilities, and commitment to the highest standards of business ethics and environmental responsibility.
 - ISO 9001 certification in all cases.
- Our **contract manufacturing network** also allows us to leverage off-shore resources to your benefit.
- Our extensive client network facilitates **new product introductions** for our clients (business development).

The Amindon Advantage



NEW PRODUCT DEVELOPMENT AND SUPPLY



WHY CHOOSE AMINDON ?

We provide a Convenient, One Step Process to Enable Successful New Product Development



THE AMINDON ADVANTAGE:

We provide resources to make your new product development objectives successful. We enhance your competitiveness through chemistry innovation. We manage the new product development process. You can concentrate on what you do best.



DELIVERING:

Services and products that enable rapid new product development via an experienced organization familiar with many chemical applications.

About Us

- Founded in 2003 by former Ciba/BASF/Air Products and Chemicals Executives.
 - Six Ph.D. scientists; shared manufacturing resources with 8 personnel.
 - Resources in US & Europe (Switzerland).

Core Offerings

- Chemical design, custom synthesis, scale -up and supply.
- Commercialization services – Regulatory, toxicology, analytical.
- IP Protection – patent services.
- Raw material sourcing.
- Business development representation

Principal Industries served

- Lubricants
- Coatings
- Plastics
- Adhesives
- Paints
- Inks
- Cosmetics
- Personal Care
- Electronics

Product Expertise

- Antioxidants, UVAs, HALS, Flame Retardants, Corrosion Inhibitors, Antimicrobials, Specialty Polymers,
- 2020 -Introduced new Silane - bound UVA, HALS and AO additives for polymer/coating/personal care applications.
- 2021/2022 – Introduced a new UV-curable monomer;
- 2023/2024 **Red-shifted** UVA; Reactable NOR HALS.

High Performance UV Stabilizer System for Water based Coatings

Ravi Ravichandran*, Miles Hutchings*, Arvin Yang**

*Amindon Inc and **Rianlon Inc
New York, USA

Light stabilizers, such as organic UV absorbers (UVA), and sterically hindered amines (HALS) find widespread use as coatings additives to prevent photodegradation during outdoor weathering. In water based coatings, many of the well established non-polar light stabilizers are difficult to incorporate due to insolubility and/or incompatibility with the aqueous coating or paint formulations. Getting a stable uniform mixture, leading to homogeneous coating formulations upon storage and use without separation of light stabilizers is critical. Several undesired phenomena such as sedimentation and gelation may occur if the light stabilizers are incompatible in water based coatings, leading to detrimental coating performance.

A new waterborne non migrating light stabilizer system, containing a reactable non-basic HALS and a reactable photo permanent UV absorber has been developed, for use in waterborne two component acrylic/ polyisocyanate crosslinked coatings. The new waterborne light stabilizer system is designed to meet the high performance and durability requirements of water based automotive and industrial coating applications



April 29 - May 2, 2024

Industries We Serve



LUBRICANTS



SPECIALTY CHEMICALS



COSMETICS / PERSONAL CARE



POLYMERS



COATINGS



ELECTRONICS

Selected Capabilities

- Alkylation
- Amination/Amidation
- Bromination
- Catalytic reduction
- Chiral Chemistry
- Chlorosulfonation
- Nitration
- Hydrogenation
- Diazotization
- Epoxidation
- Chlorination
- Esterification
- Friedel-Crafts Reaction
- **Fluorine chemistry**
- Grignard reaction
- High Pressure reaction
- Michael Addition
- Oxidation reactions
- Oximation
- Silylation
- Transesterification
- Phosgenation
- Polymerization
(free radical, ionic, condensation)



NFIL Capabilities



NAVIN FLUORINE
INTERNATIONAL LIMITED

About the company

- One of largest and fully integrated Specialty **Fluorochemical Companies** in India offering **CRO, CDMO and CMO services** to Innovator partners in Advanced Materials, electronics industry, Crop & Life Science
- Have **3 manufacturing plants in India** and **Advanced R&D in Manchester UK.**
- Offers end to end solutions from lab development to kilo, pilot, **multi-ton and multi-thousand ton scale capacities.**
- Deeply **backward integrated** into fluorination as well as non-fluorinated strategic building blocks and technology platforms.
- **Manufacture Specialty chemicals & gases, refrigerants, inorganics, dielectric fluids, monomers and advanced intermediates** for electronics, EV, fire, energy and other niche application

Technology platforms

- High temperature & High-pressure vapor phase reactions
- **Electrochemical fluorination (ECF)**
- High purity gas separation and procession
- Thermal cracking
- Organometallic and reactive chemistry for electronics and battery
- Cryogenic (-50 deg C) system
- Silicone chemistry for coatings, adhesives and electronic materials
- Flow chemistry platforms
- Photochemical technologies

Analytical Capabilities

- ICP-MS, NMR, FTIR, LCMS, IC, HPLC, Cryo/ non-cryo GC, GCMS, Coulometer etc.

NFIL Capabilities

Examples that demonstrate robust IP protocols, technological strength to scale up and global scale of manufacturing

- In 2020 **NFIL and Honeywell Advanced Materials** partnered to setup a plant to manufacture **10,000 TPA of HFO gas**. Plant is in operation for last 4 years and product is sold **exclusively** to Honeywell.
- In 2025 **NFIL and Chemours** partnered for scale up and manufacturing of **cooling fluids used for hyper scale data centers**. This is an **exclusive** agreement to sell to Chemours. Process is based on advanced technological platform and niche capabilities.



Amindon Patent services Overview

Patentability
Assessment and
Prior Art Search



Patent Drafting



Office Action
Responses

Patent Filing



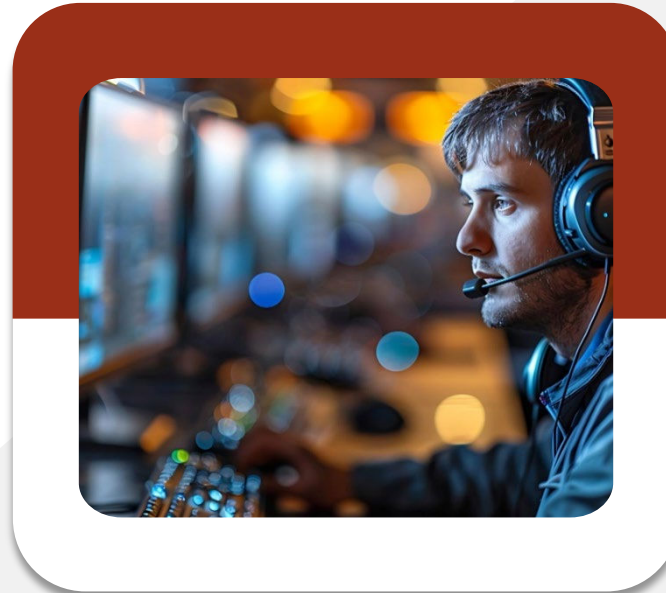
Summary

Amindon Capabilities



Technology innovation

- New product development
- Client specific solutions (joint R&D)
- Patent services



Technical support

- Problem solving and application know-how
- Process development, scale-up and manufacturing



Business Development

- Strategy development
- New product introductions (established client network)



Contact Us



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Visit Us



Location
Nashville, TN. Exhibit Space **517**



Date
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Thank You



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