

SOCMA 2025 Nashville, TN



Our Heritage



1950: John Birmingham pioneered the synthesis of metallocenes at Harvard during his graduate work with Sir Geoffrey Wilkinson.

Bis(Cyclopentadienyl) Compounds of Ti, Zr, V, Nb and Ta. J. Am. Chem. Soc. **1954**, 76 (17), 4281

- **1961:** Boulder Scientific (BSC) is incorporated in Boulder, CO.
- Continual Growth:
 - **1979:** BSC relocates manufacturing to 10-acre parcel in Mead, CO
 - **1990's 2000's:** Significant growth for BSC in metallocenes for polyolefin catalysts, organometallics for semiconductor and other applications
 - **2017:** BSC expands manufacturing and R&D at 2nd site in Longmont, CO
 - 2019: Private equity firm Quad-C acquires majority ownership in BSC supporting further growth





Who We Are Today

Custom Specialty Chemicals

Advanced	Electronic	Performance	Fine	
Catalysts	Materials	Materials	Chemicals	
Polyolefins Industry	•ALD and CVD Precursor	•Defense and Aerospace Industry	 Research and Development Life Sciences 	Colles-

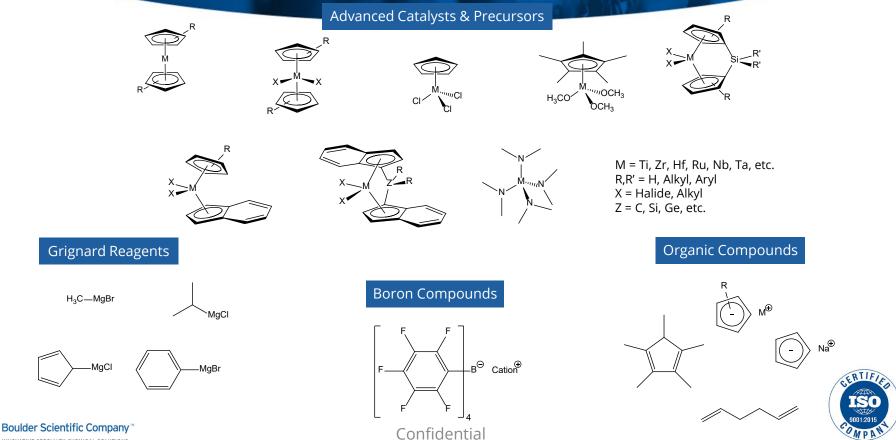


SERTIFICA ISO 9001:2015 PDM PAN

- Over 50 years of experience in commercial manufacturing of organometallic compounds
- >200 full time employees and growing

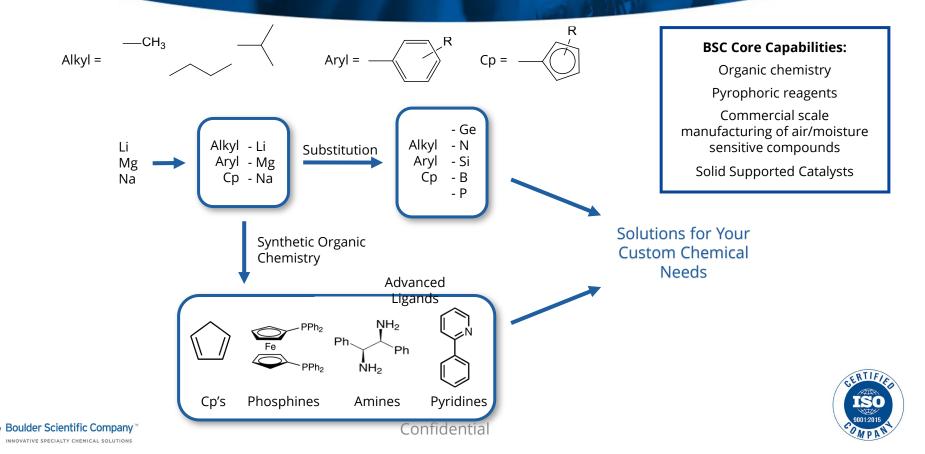


BSC Product Offerings



B INNOVATIVE SPECIALTY CHEMICAL SOLUTIONS

BSC Core Capabilities



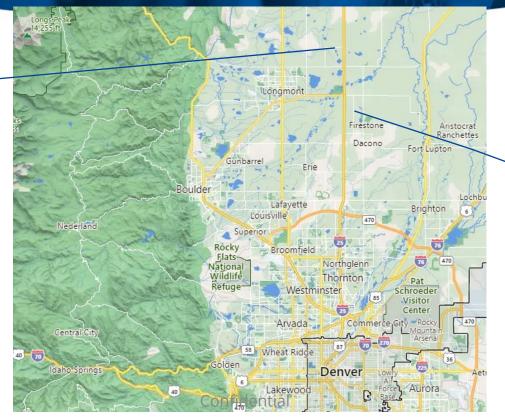
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Facilities in Northern Colorado



Boulder Scientific Company





Longmont (HQ) R&D, Manufacturing, Corporate Office





Facilities in Northern Colorado







Production Capabilities

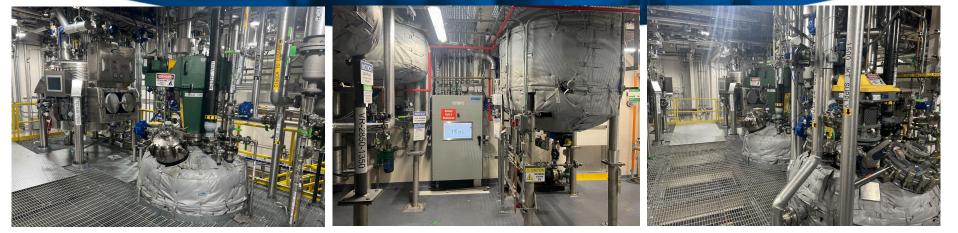
- Reactors of various sizes and materials of construction (lab to commercial scale)
- Variety of Filtration Technology & Centrifuges
- Commercial scale distillation
- Handling of air/moisture sensitive materials at commercial scale
 - Liquid and solid packaging
 - Pyrophoric materials







Longmont Cell 3 Expansion





Boulder Scientific Company

INNOVATIVE SPECIALTY CHEMICAL SOLUTIONS

- Started-up 4Q 2024
- Operational and currently running
- Multi-purpose
 - Mix of mid- and large-scale reactor trains
 - Full automation
 - Supports growing demand for products across all of BSC's markets



Confidential Information

R&D / Analytical Laboratories



Extensive Analytical Instrumentation & Process Safety Equipment

- NMR
- GC / GC-MS
- HPLC
- FTIR
- UV/VIS
- Karl Fischer
- ICP-OES / ICP-MS
- Particle Size Analyzer
- Headspace Analyzer
- Reaction Calorimeter
- DSC & TGA



Investments to Support Electronic Materials Growth



Boulder Scientific Company



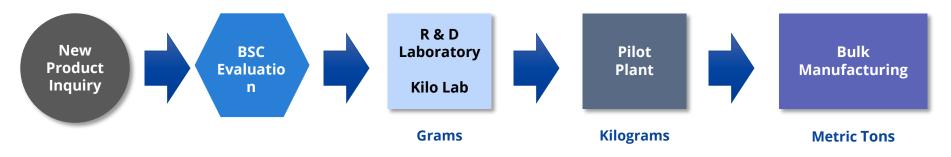


- Growth in new product introduction and scale-up requiring expansion of kilo/pilot scale distillation
- Additional capacity addition in high volume distillation
- Upgrades to analytical capabilities to meet increasingly stringent trace metal requirements
 - Additional, dedicated ICP-MS
 - Installed in a new cleanroom
 - Critical environments (such sample prep hood) designed to achieve ISO-4 (Class 10) standards
 - Needed to achieve required detection limits



Specialty Custom Manufacturing – New Products

New Product Scale-Up Work Process



- Typical Work Process: Close collaboration with customers on development
- Scale Up from R&D to Commercial Quantities

- Air & Moisture-Sensitive Compounds
- Pyrophoric Materials
- Multi-Step Syntheses





Custom Packaging and Shipping



- Solids Packaging, Drums, Cylinders, ISO Tankers
- Global Shipments
- Customer Specific Packaging and Shipping





Environmental Health & Safety



- ChemStewards Certified (SOCMA) Tier 3
- 2024 SOCMA Safety Program Recipient Mead & Longmont sites
- Member of the Colorado Green
 Business Network formerly CDPHE
 Environmental Leader Gold Award
 (since 2012)
- Sustainability Platforms
 - Ecovadis
 - CDP





Culture











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