



Ascend Performance Materials

¡Ahora estamos en MÉXICO!





Ascend makes high-performance materials for everyday essentials and new technologies.

- Our focus is on improving quality of life and inspiring a better tomorrow through innovation.
- We are a fully integrated material solutions provider with eleven global manufacturing facilities in the US, Mexico, Europe, China and India.
- **As the world's largest fully integrated producer of polyamide 66** resin we can ensure the highest reliability, quality and performance.

Who We Are:

- PA66 manufacturer for more than 70 years.
- Company Headquarters in Houston, Texas; regional offices in Belgium and China
- Local compounding of plastics in all regions
- Global sales and logistics support.
- More than \$2.5 billion in annual revenue.
- Approaching 3,000 employees globally.
- We have added resources at OEM level for specifications and interface.
- We have added resources in Application Development Engineering.
- We have opened an office in Royal Oak, MI to support automotive.
- Global resources in CAE and technical support.
- Continuing to invest in additional portfolio enhancements & strategic acquisitions.

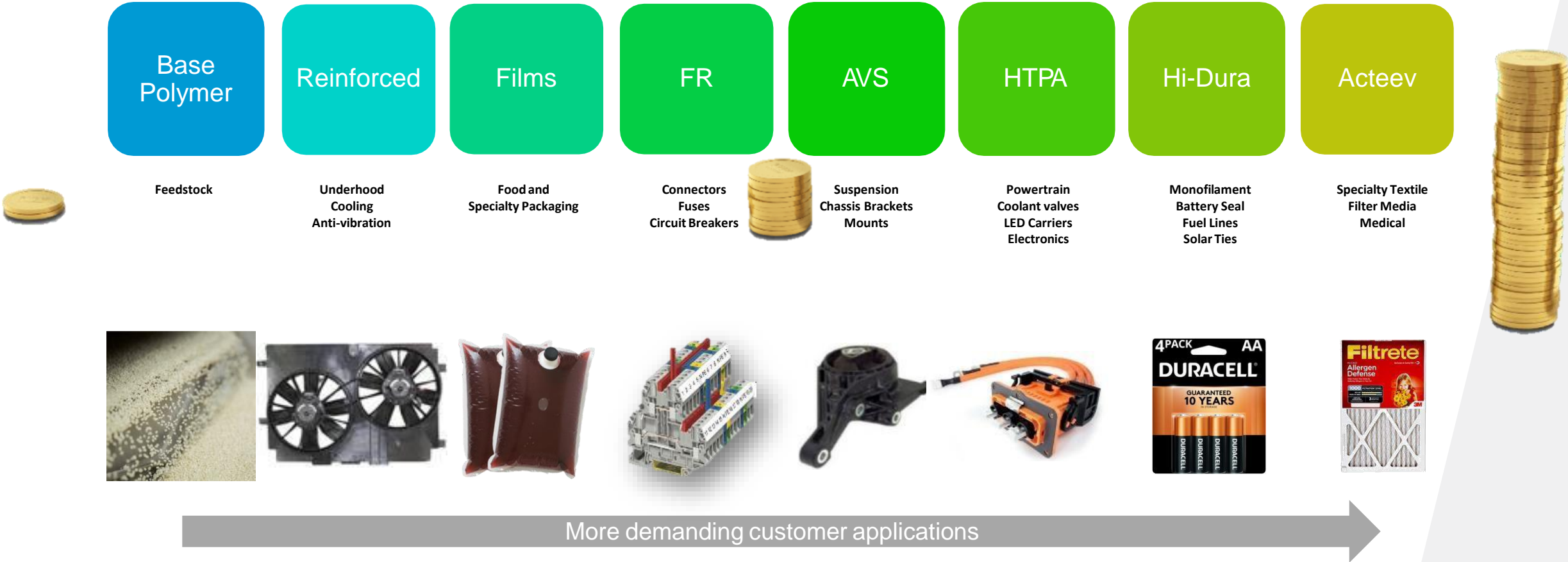


Ascend produces 1 Billion lbs. of PA66 annually.

Servicing highly specified applications through compounding



Specifying our materials into demanding applications generates higher value price



Materials designed to increase your performance

Broadening our portfolio of solutions to better serve our customers roadmap



PA66 & PA6 resins and engineered plastics

- **XHT** high performance thermal series
- **AVS** antivibration/structural series



Flame retardant resins and compounds



LCPA resins and engineered plastics



Industrial and post-consumer recycled grades

Trinohex™ Ultra

Battery electrolyte additive

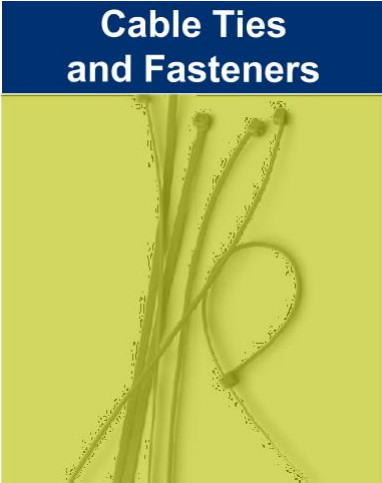
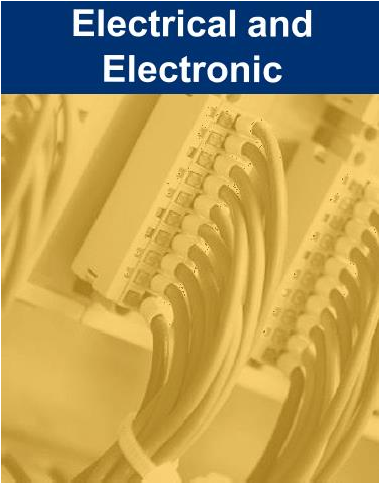
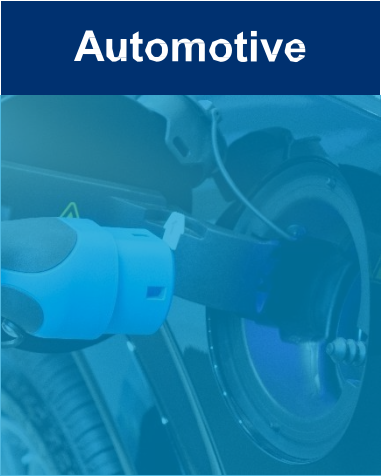


Antibacterial/antimicrobial engineered plastics and textiles

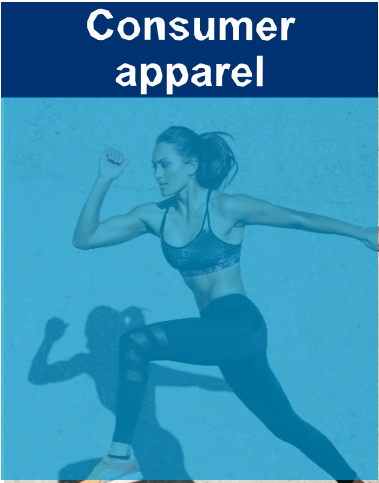
Nonwoven filtration media

Mercados que servimos

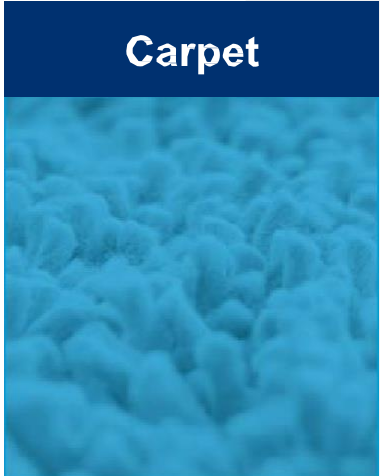
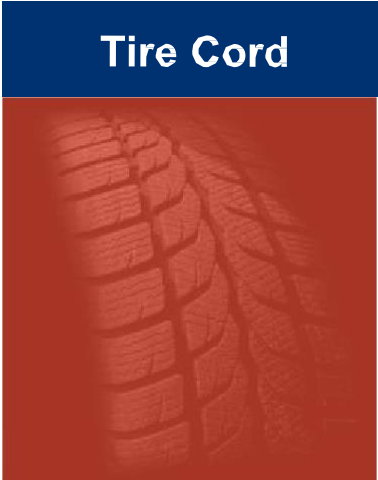
Engineering materials



Textiles



Fibers



Polyamide applications in Automotive Cooling Systems

Radiator End Tanks



Thermostat Housing



Coolant Quick Connects



Coolant Lines



Fans & Shrouds



Reservoirs



Coolant Valves

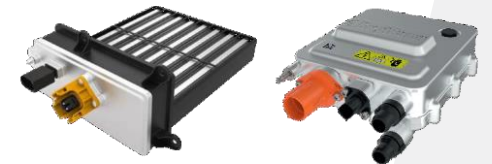


e-Water Pumps



Source: Vitesco

Auxiliary Heaters



Source: BorgWarner

Thermal Management Components Driven by e-Mobility

Heating and Cooling Systems combine with Modularization to reduce cost



High Voltage Air Heater

Source: BorgWarner



High Voltage Liquid Heater



Source: Eberspächer



Electronic Primary Water Pump

Source: Magna

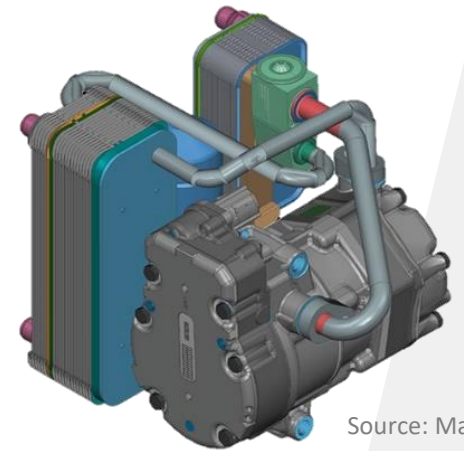


Electronic Auxiliary Water Pump



Coolant control Valves

Source: Continental



Integrated Heat Pump System
& Thermal Modules

Source: Mahle

Polyamide 66 applications in automotive oil management

**Cylinder Head Cover
& Oil Separator**



Oil Pan & Cover

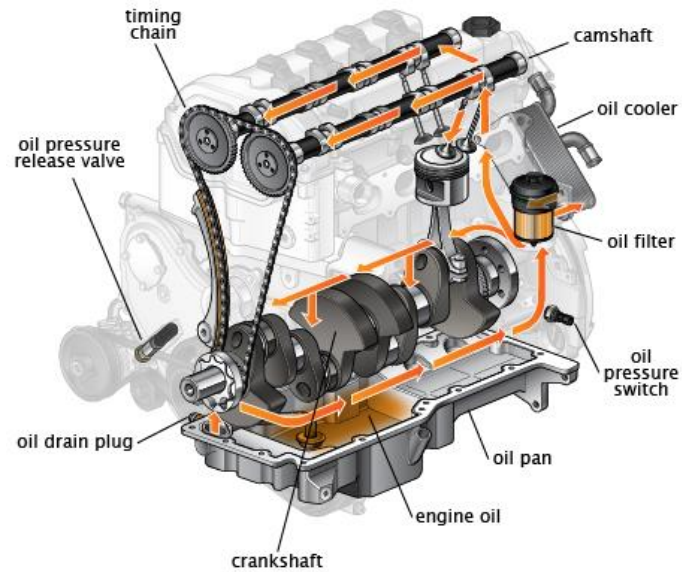


Image courtesy of ClearMechanic.com

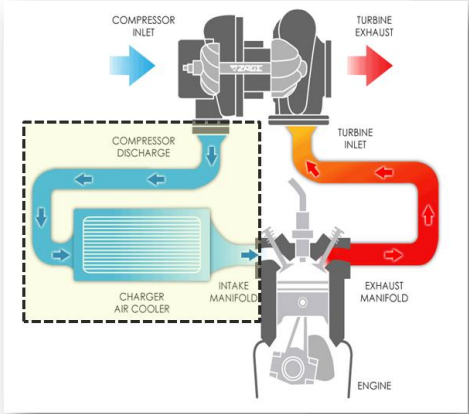
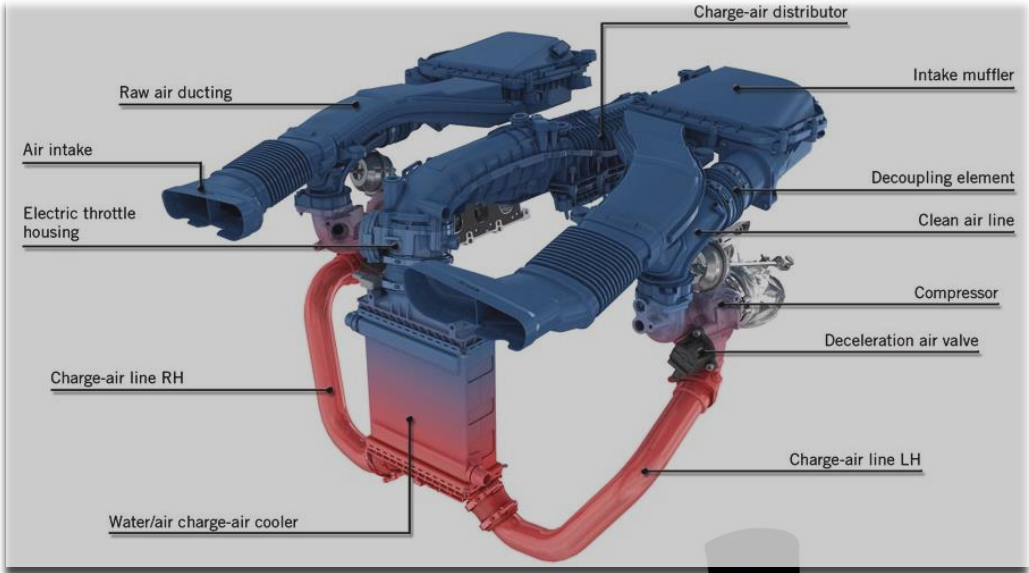
Oil Filter Module



Filtration & Other



Air Induction & Turbo



Ascend's Answer For E-Mobility Applications



Thermal Runaway
(Fire Protection)

Starflam®
Crosslinkable PA



Thermal Management
(Hydrolysis Resistance)

Vydyne®
HiDura™



Fast Charging
(High Voltage/Current)

Starflam®
Vydyne®



Lightweighting
(Increase range)

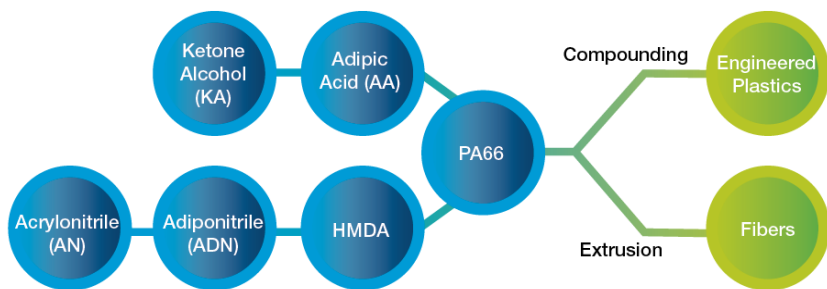
Vydyne® AVS



Backwards integrated operations in intermediate & specialty chemicals

Over 1 Billion pounds of PA66 sold annually

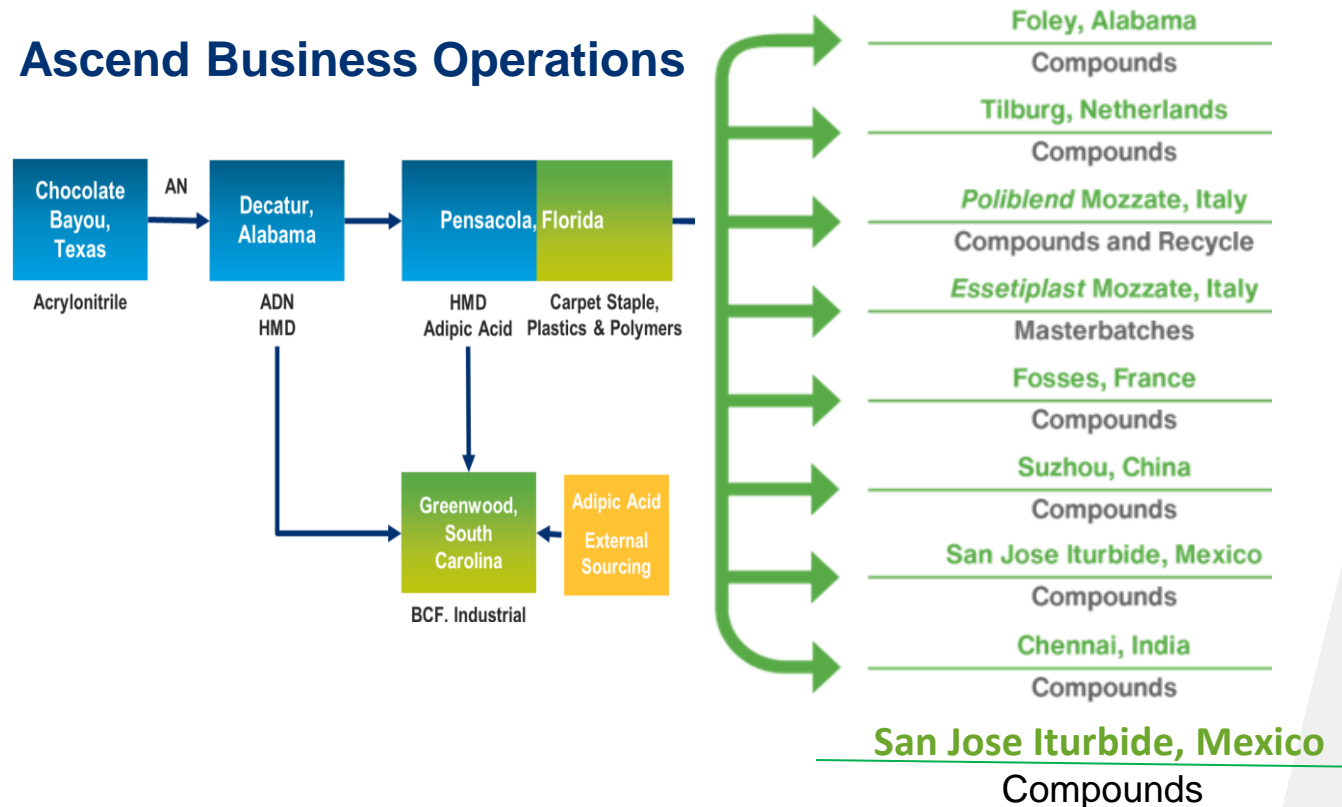
Nylon66 Process



There are only four Adiponitrile (ADN) plants in the world. Production technology is proprietary and closely held by 2 companies (Ascend and Invista).

Chemicals

Ascend Business Operations



Plastics/Polymer/Fibers

Mexico - Site Location and Capacity



Ascend Mexico is located in San Jose de Iturbide, Queretaro MX.

- x4 JSW extruders with room for expansion
- Hopper truck: Loading and Unloading capacity
- Local warehouse
- Rail spur with rail line storage
- Packaging options include bulk and gaylords, box upcoming
- Quality Lab is ISO certified
- Internal and external audits



