

Railcar Component Materials

A French rail transport company is seeking a variety of materials that are used in the manufacturing of locomotive interiors. They are seeking US-based industrial material providers and machiners in the following areas:


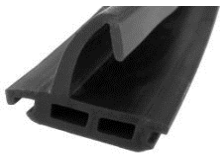




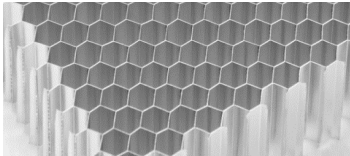
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| • <i>Insulation</i> | • <i>SMC Raw material Manufacturer</i> | <i>Manufacturing</i> |
| • <i>Gasket</i> | | • <i>Die Manufacturer (Mould/Pattern)</i> |
| • <i>Powder Coating Raw Material</i> | • <i>SMC Manufacturer</i> | • <i>CNC Machining</i> |
| • <i>Powder Coating Application</i> | • <i>Honeycomb Core</i> | • <i>Casting</i> |
| • <i>Paint</i> | • <i>Honeycomb Panel Manufacturer</i> | • <i>Tube bending</i> |
| • <i>Paint Application</i> | • <i>Polycarbonate</i> | • <i>Fasteners</i> |
| • <i>Anodizing</i> | • <i>Locks</i> | • <i>MDF Board</i> |
| • <i>Aluminum Sheet</i> | • <i>Sheet metal Bending</i> | • <i>HPL Laminate</i> |
| • <i>Aluminum Extrusion</i> | • <i>Welding</i> | • <i>Sheet metal operation</i> |
| | • <i>FRP - Resin and Gelcoat</i> | • <i>Film</i> |
| | • <i>FRP Parts</i> | |



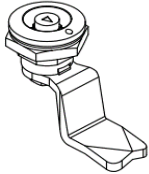
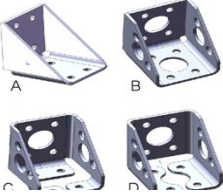


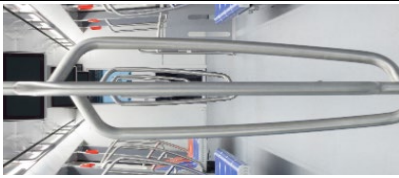
Additional details and specifications for each product are provided in the attached document.

Trade Lead Point of Contact: Stephanie Pencole, US Commercial Service, US Embassy Paris, Stephanie.Pencole@Trade.Gov

If you are interested in this lead, please reach out to the trade lead POC and copy your local [U.S. Commercial Service \(USCS\) office specialist](#), who is also available to answer any of your export questions.

Trade Lead Received July 2021

Product	Qty.	Unit	Description 1	Description 2
Insulation	6000 sq. meter minimum		Thermal Insulating materials shall be fire-retardant, non-carcinogenic, non-hygroscopic, resistant to fungus, and provided with a vapor barrier as required to prevent the entry of moisture, oil, gases, and dust. Urethane foam insulation is expressly prohibited	* Thermal conductivity < 13,000 J/hrm2-Co/cm (0.25 Btu/hr-ft2-Fo/in) as per ASTM C177. * Fire resistance as per: - 49 CFR Part 238 requirements - NFPA 130 requirements - Additional tests for toxicity in accordance with SMP800C
Gasket 			NBR Foam Gasket	
Gasket 			Silicone Profile Gasket	
Powder Coating Raw Material			Supplied to Automobile/ Railway Application	Epoxy based (For Interior) * Fire resistance as per: - 49 CFR Part 238 requirements - NFPA 130 requirements - Additional tests for toxicity in accordance with SMP800C
Powder Coating Application 			Finished film thickness shall be 3.5 mil (0.089mm) ± 1.0 mil (0.025mm) Experienced for Automobile/ Railway Application	Booth Size minimum 4,2 m x 3m x 3 m
Paint			two coats of synthetic enamel Supplied to Automobile/ Railway Application	The painted parts shall comply with corresponding §6.3 Parts localization according to DTRF 150608:2020 and DTRF 150611:2019.
Paint Application 			two coats of synthetic enamel application Experienced for Automobile/ Railway Application	Paint booth and Curing Oven Size minimum 4,2 m x 3m x 3 m
Anodizing			Anodizing Process application service provider Experienced for Automobile/ Railway Application	
Aluminum Sheet			Aluminum sheet manufacturer and supplier	Aluminum 5000 Grade and 6000 Grade
Aluminum Extrusion 			Aluminum Extrusion manufacturer with Die diameter 40 mm to 400 mm	
SMC Raw material Manufacturer			Sheet molding compound based on unsaturated polyester resin	
SMC Manufacturer 			SMC Processed Parts Manufacturer Experienced for Automobile/ Railway Application Colored SMC Component possibility to check	5 mm Thick. 1,5 x 2,5 m Parts manufacturing Capacity
Honeycomb Core 			Aluminum Honeycomb Core Manufacturer Supplied for Automobile/ Railway/ Aerospace Application	6,4 mm cell size, 0,07 mm foil thick., 20 mm Height

Honeycomb Panel Manufacturer				Aluminum Honeycomb Panel Manufacturer Experienced for Automobile/ Railway/ Aerospace Application	
Polycarbonate				Polycarbonate Extrusion manufacturer for Led Light unit Experienced for Automobile/ Railway Application	
Locks				unpainted white bronze Experienced for Automobile/ Railway Application	
Sheet metal Bending				Experienced for Automobile/ Railway Application	
Welding				Experienced for Automobile/ Railway Application	Preferably near to Hornell, NY
FRP - Resin and Gelcoat				Previously supplied for Automobile/ Railway Application	Fire-resistant polyester Resin
FRP Parts Manufacturing				Experienced for Automobile/ Railway Application Internal Tooling and Die Shop is preferred	For parts size 1,5 x 2 m
Die Manufacturer (Mold/ Pattern)				Experienced Mold/ Pattern Manufacturer for FRP/ RTM/ SMC Parts	For parts size 1,5 x 2 m
CNC Machining				3 Axis/ 4 Axis Router for aluminum Extrusion Machining	Preferably near to Hornell, NY
CNC Machining				3 Axis/ 4 Axis VMC CNC for Metallic Machining on Hourly rate basis	Preferably near to Hornell, NY
Casting				Aluminum Casting	Preferably near to Hornell, NY
Casting				Stainless Steel Casting	Preferably near to Hornell, NY
Tube bending				Tube Bending (3 Axis) to manufacture Railway Grab Rail etc.	Preferably near to Hornell, NY
Fasteners				Stainless steel, Carbon steel Nutcert, Threaded insert, Hex Nut, Bolt, Aluminum Rivet etcetera	
MDF Board				MDF Board 12/16/20 mm thick.	Preferably near to Hornell, NY
HPL Laminate				Supplied for Automobile/ Railway/ Aerospace Application For Interiors	- Fire Compliant with NFPA 130 requirements
Sheet metal operation				Supplier doing Job work for LASER Cutting, Bending, Punching, Shearing etc. in Aluminum, Carbon steel, Stainless Steel in 0,5 mm to 4 mm thickness	Preferably near to Hornell, NY
Film				Decorative Film for Metro / Automobile/ Aerospace interiors Proven Solution	