

3D131 "Tires in General"

OA01	OA02	OA03	OA04	OA05	OA06	OA07	OA08	OA09	
• Non-pneumatic tires and related technologies	• Wire manufacturing and core assembly	• Technologies for manufacturing and reinforcing tires	• Protector-rib manufacturing processes	• Molding, repair, and related technologies for rubber products	• Tire forming and reinforcement technologies	• Technologies and materials for tire manufacturing and repair	• Adhesive and dispensing technologies	• Tire manufacturing technologies and components	
OA10	OA11	OA12	OA13	OA14	OA15	OA16	OA17	OA18	OA19
• Tire structures and materials	• High-thermal-conductivity materials and their applications	• Tire structures and constituent materials	• Chemical materials and fluid analysis	• Nanomaterials and inorganic material technologies	• Tire structures and deformation characteristics	• Crosslinking technologies for fluororubber	• Tire structures and material properties	• Rubber compositions and properties	• Reinforcing members and structures for tires
OA20	OA21	OA22	OA23	OA24	OA25	OA26	OA27		
• Thermal and pressure management technologies	• Tire design and performance management	• The geometry of the tread surface and its unevenness and smoothness on ice	• Tire surface patterns and structures	• High-strength, wear-resistant materials and design technologies	• Simulation and analytical models	• Tire treads and traction	• Tire rolling resistance and viscoelasticity		
OA28	OA29	OA30	OA31						
• Image inspection, defect detection, and alignment technologies	• Alignment of lasers and mechanical components	• Detection of load and strain using X-ray CT systems	• Wear detection and road-surface sensors						
OA32	OA33								
• Vulcanization and recycling of reclaimed rubber	• Biomass-derived chemical conversion processes								
OA34	OA35								
• Tire protection and reinforcement technologies	• Fibrous structures and reinforcing materials								
OA36	OA37	OA38	OA39	OA40					
• Retroreflective materials and curing agents	• Anti-aging agents for chemical substances	• Motorcycle tires and the effects of UV radiation	• Sealant technologies and materials	• Tire and wheel technologies					
OA41	OA42								
• Sound-absorbing and noise-control materials and technologies	• Spectral analysis of acoustics and vibration								
OA43	OA44	OA45							
• Electric-vehicle aerodynamics and tire structures	• Tire lightweighting and rolling-resistance reduction	• Smoke visualization in wind-tunnel testing							
OA46	OA47	OA48	OA49	OA50					
• Bicycle rim brake systems	• Aircraft landing gear and procedures	• Pest control and insect-proofing measures	• Chromism technologies and color-changing devices	• Shape-memory alloys in low-temperature environments					