

C3 Acceleration Snow Traction Report



**Materials Science and Engineering
425 West Market St.
Akron, OH 44303**

Program Name: Indag Rubber Snow 1

Test Conformance: ISO18106/UNECE-R117

Quote Number: 24-1008626BS

**Prepared For: Indag Rubber Limited
Sandeep Kumar
2nd and 3rd Floor, 11, Khemka House
Community Centre, Saket Delhi-1100:**

**Testing Location: SMITHERS MSE NORTH AMERICA
21105 W. M-28, Building #3
Brimley, MI 49715**

Report Date: 3/31/2025

Approved By:

A handwritten signature in black ink, appearing to read "Bradley Sellers", written over a horizontal line.

**Bradley Sellers
Consultant
Technical Consulting
Smithers**

A handwritten signature in black ink, appearing to read "Joshua Williams", written over a horizontal line.

**Joshua Williams
Vice President
Technical Consulting
Smithers**

Snow Grip Index Measurements for C3 Tires
Acceleration Test ECE 109R. Annex 10 ECE 117R. Annex 7

Test Track Conditions:

	At start of tests	At end of tests	Specification	Equipment ID
Ambient Temperature	-9.4	-7.2	-2 °C to -15 °C	CL051324
Snow Temperature	-7.2	-6.7	-2 °C to -15 °C	CL051322
CTI Index	86	84	80 to 90	4

Technician	Jonah Mills
VBOX ID	VB20SL ID 18043
Air Pressure Gauge ID	21
Date of Test	3/8/2025
Test Sequence ID	Indag Rubber Snow 1

Test Vehicle: 2013 International SA

Test Parameters:

	SRTT (1st test)	Candidate 1	Candidate 2	Candidate 3	SRTT (2nd test)
Tire ID #1	017-0259	830-0000	830-0002	830-0004	017-0259
Tire ID #2	017-0260	830-0001	830-0003	830-0005	017-0260
Client Tire ID	24-25 C3W SRTT	0	0	0	24-25 C3W SRTT
Tire Brand and Make	Michelin SRTT ASTM F2870	Indag Retreaded Tire	Indag Retreaded Tire	Indag Retreaded Tire	Michelin SRTT ASTM F2870
Tire Size	315/70R22.5	315/80R22.5	315/80R22.5	315/80R22.5	315/70R22.5
Test Rim Width	9.00	9.00	9.00	9.00	9.00
Front/Rear Loads (kg)	4051 / 2667	4051 / 2667	4051 / 2667	4051 / 2667	4051 / 2667
Front/Rear Ratio (%)	1.52	1.52	1.52	1.52	1.52
Rear/Index Ratio (%)	0.356	0.333	0.333	0.333	0.356
Test Pressure (kPa)	627.4	606.7	606.7	606.7	627.4

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Candidate 1: 830-0000 ZDR1 By Zoma (Indag Rubber LTD)



Candidate 2: 830-0002 ZDRB By Zoma Indag Rubber LTD)



Candidate 3: 830-0004 ZDRO By Zoma (Indag Rubber LTD)

Snow Grip Index Measurements for C3 Tires
Acceleration Test ECE 109R. Annex 10 ECE 117R. Annex 7

Test Results: Average Accelerations (m/s²)

	SRTT (1st test)	Candidate 1	Candidate 2	Candidate 3	SRTT (2nd test)
Tire ID #1	017-0259	830-0000	830-0002	830-0004	017-0259
Tire ID #2	017-0260	830-0001	830-0003	830-0005	017-0260
Client Tire ID	24-25 C3W SRTT				24-25 C3W SRTT

Run Number					
1	0.56	1.62	1.59	1.53	0.55
2	0.56	1.62	1.61	1.55	0.56
3	0.55	1.60	1.65	1.56	0.56
4	0.55	1.64	1.66	1.58	0.55
5	0.54	1.68	1.70	1.62	0.56
6	0.54	1.53	1.70	1.64	0.54

Mean	0.55	1.62	1.65	1.58	0.55	
Std Dev	0.01	0.05	0.05	0.04	0.01	
CV (%)	1.72	3.15	2.77	2.61	1.35	< 6%
Slip Ratio (%)	39.69	31.45	30.80	27.26	39.80	10 to 40%

Validation SRTT					0.18	≤ 6%
SRTT Average	0.55					

Snow Index	1.00	2.93	2.99	2.86	
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