



Objective tests include all data from the test in electronic format.

Time, lateral and longitudinal acceleration, speed, displacement, and position at 100Hz.

Data acquired by some of the latest technology GPS and accelerometer based systems.

Our tests will give your engineers a complete picture of tyre/vehicle performance.

Choose specific tests or complete snow or ice “test packages”

These packages include:

- Subjective handling (snow only)
- Objective acceleration
- Objective braking
- Objective lateral acceleration

Our goal is to communicate results within 24 hours of test completion.

We also offer a teleconference or electronic meeting with the test engineer within 48 hours of subjective tests.

- This is an ideal opportunity for engineer to engineer discussion of test details.
- This is the best means to ensure complete understanding of the test results.

SHPG can also provide winter test evaluation training

Vehicle control

- Front wheel drive, rear wheel drive, and all wheel drive demonstrations and seat time.

Evaluation theory and terminology.

Subjective evaluation procedures.

Objective evaluation procedures

- Instrumentation
- Data acquisition
- Data reduction
- Driving skills for maximum objective repeatability

Testing on snow and ice.



SOUTHERN HEMISPHERE PROVING GROUNDS
WANAKA, NEW ZEALAND



Contact SHPG for pricing details:
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Southern Hemisphere Proving Grounds



Southern Hemisphere Proving Grounds Winter Test Services

SHPG now offers comprehensive winter tyre/vehicle testing in addition to world class winter test facility rentals.

Fulfil your counter seasonal winter test needs by contracting the experts at SHPG.

SHPG has winter test engineering staff with over 20 seasons of winter test experience.

SHPG is the only full service winter test facility in the southern hemisphere.

Our test season is from mid June to September (weather dependent).

Get the data you want when you want it.



Save Money and Manpower

Rely on our objectivity and engineering experience to give you dependable and repeatable data for your development programs.

Utilize SHPG to prevent unnecessarily long gaps between winter test sessions.

Define your specific conditions:

- Temp ranges ($2^{\circ}\text{C} > \text{Temp} > -10^{\circ}\text{C}$)
- Hard pack or medium pack snow
- Ice

Allow SHPG to complete any last minute, rushed, or incomplete programs.

Speciality tests for all manner of winter performance can be designed based on your needs.

- Specialising in passenger car/light truck
- Medium duty truck, Ag, and industrial tyre/vehicle tests can be designed



We offer a full range of winter snow and ice testing

Subjective handling on snow

Objective (instrumented) tests on snow or ice

Acceleration

- Time, distance, speed
- Acceleration vs. time plots

Braking

- Time, distance, speed
- Acceleration vs. time plots

Maximum lateral acceleration

- g value of maximum lateral acceleration
- Acceleration vs. time plots

Handling on snow

- Lap times
- G-g plots

TEST 1, SET C, ACCEL AND BRAKING RUNS

