

Continental Stud Technologies IceContact[™] 2



ContiTechnikForum²⁰¹⁴

www.continental-corporation.com

IceContact 2 Stud Technology

Legal requirements of stud approval



- > Max. 50 studs/ m of tire circumference
- > Max.1.2 mm stud protrusion
- > Max.1.1 g stud weight
- > Max. 120 N stud force

Legal requirements of road wear approval



- > Weight difference measurement of granite plates
- > 400 tire roll over at a speed of 100 km/ h
- Tire load index categories with different road wear limits to get studded tire approval
- > Stud approval criteria do not need to be considered



Indoor Method for Studded Tire Road Wear Development with Karlsruhe Institute Technology – KIT









Safety

Increased number of studs/ meter by 50%

Driving control

- Increased stud impact to brake on ice surfaces while decreased road wear abrasion – light weight design
- Optimized stud tracks for maximum ice grip



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Target conflict solution



Features & benefits of Kristall stud

Feature

- > New stud design
- > Stud weight -25%
- Cured studs

Benefit



- Greater transmission of forces between stud and ice
- Performance leap of ice grip versus road wear
- > Reduced stud loss

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IceContact 2 Stud Technology

TIKKA Spikes 🐨



Tikka Spikes:

- > Stud competence in-house since 2008
- Strong R&D cooperation
- > Aligned innovation process







IceContact 2 Retention Technology

StudOn Retention Technology



