

TIVAR® TECH In Rail Sections Transport



■ Challenge

Improve equipment functionality to support efficiency and reliability in transport & handling of large steel rails

To build railway tracks, it is necessary to transport and assemble the steel rails on the actual rail track. The new rails are mainly between 80 to 102 meters long, but can also extend up to 400 meters.



For transportation the rails are loaded onto wagons in layers; one wagon typically holding several layers. For the actual installation of the track, the steel rails are unloaded one by one, and put on the railway track in the right position, while the wagon moves at very low speed, then finally fixed to the rail track crossing bars.

In order to have a systematic loading, transport, and unloading process, separation and support bars were needed between the rails for the wagons.

The previous support elements failed too frequently, which caused the customer problems in carrying out an efficient track laying operation.

■ Key Requirements

- Excellent wear properties
- Light weight
- Resistant to very diverse and outside weather conditions

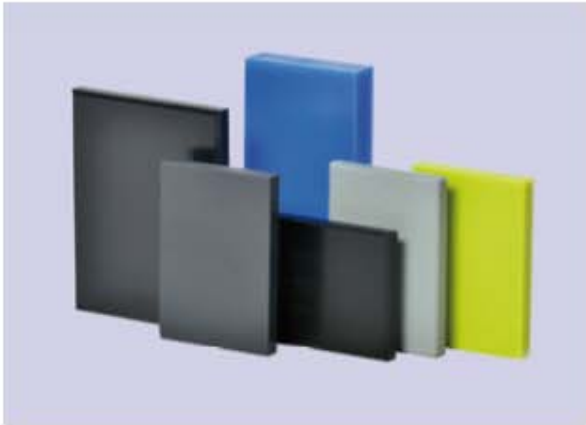
**Quadrant's Recommendation:
TIVAR® TECH**

■ Customer Benefits

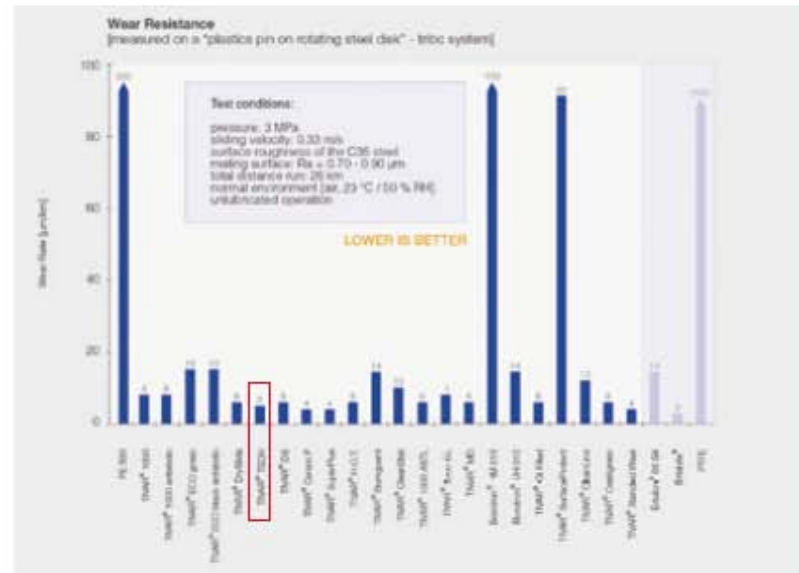
- Cost savings made possible by improved lifetime of rail track separating pads, less time lost in replacement and maintenance cycles
- More efficient and easier moving/handling of the rails out of wagons; less strenuous for the workers

Why TIVAR® TECH?

- Very high wear resistance (compared to previous solution PE500) and low abrasion due to material additives
- Highly resistant to harsh conditions during transport
- Long life time and reliable material



TIVAR® materials from Quadrant, providing improved sliding conditions; TIVAR® TECH grades (left, black/dark grey)



Quadrant Added Values

- Quadrant could offer the technical support globally, a key condition given the global set-up of the customer
- We provided a truly complete solution: material for sliding pad, handle, stops to prevent movement during transportation, and assembly of all sliding pad elements at the Quadrant manufacturing site

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