

Railway Friction Materials

Sintered Metal Disc Brake Pads

Sintered metal disc brake pads are used in high duty applications such as the French TGV and German ICE high speed trains to accommodate the operational requirements of such trains.

This sector of railway market is growing rapidly as more and more countries are opting for a high speed rail system to support their economic growth. The Chinese HSR system is a prime example of such market trend.

In developing sintered metal disc brake pads for such applications, two potential issues should be taken into consideration:

- (i)- Pad system flexibility
- (ii)- Braking noise

In such duties, a brake pad should be able to evenly dissipate the heat generated during braking, to avoid any hot spots which could lead to disc cracking.

Operational issues of this nature can be addressed through innovative designs such as Knorr-Bremse flexible Isobar system and silent Flexpad.

The above requirements apart, one also faces other technical challenges in developing sintered metal disc brake pads; such as:

- (i)- Stable frictional behaviour throughout the speed range
- (ii)- UIC wet performance characteristics

MLP Friction Braking Limited with direct experience in this area of product development can provide the necessary technical support and assistance to its clients to develop such sintered metal disc brake pads.

If you would like more information about this product development consultancy service, please do not hesitate to contact us.

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