



MBS

Marathon Brake Semi-Metallic

A semi-metallic lining designed specifically for severe service truck and mining applications



Marathon

BRAKE SYSTEMS

MBS

Marathon Brake Semi-Metallic

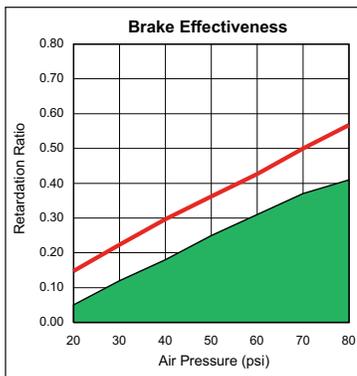
Marathon developed MBS brake linings to address the most severe duty braking requirements. This semi-metallic friction material provides high temperature stability and therefore consistent stopping power in even the toughest applications. This long life brake lining easily meets Federal regulations for brake effectiveness, fade and recovery in accordance with FMVSS 121 test procedure and is rated for 23,000 lb axle loads.

MBS linings feature the Hi-Density Marathon formulation (detailed at right) that will improve your bottom line through better performance and fewer maintenance headaches.

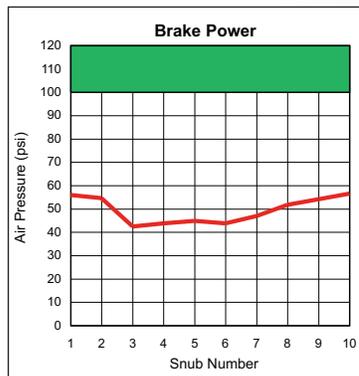
MBS Delivers

- Ideal for the most severe duty truck applications
- Longest lining life in its class
- Hi-Density formulation for excellent heat dissipation
- Dependable stopping performance
- Excellent brake fade and recovery characteristics
- Extremely drum friendly

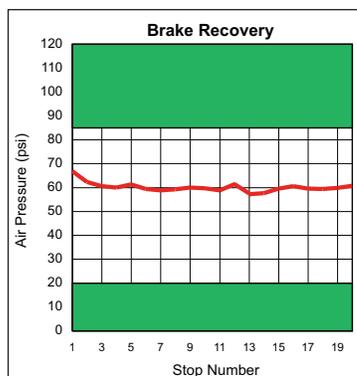
FMVSS 121 Test Results



Retardation



Fade



Recovery

Testing conducted in accordance with FMVSS 121 criteria @ 23,000 lb axle load: 16 1/2 x 7 inch S-cam air brake; type 30 air chamber and 5.5 inch slack adjuster; and a 20.7 inch tire rolling radius. Shaded area indicates non-compliance.

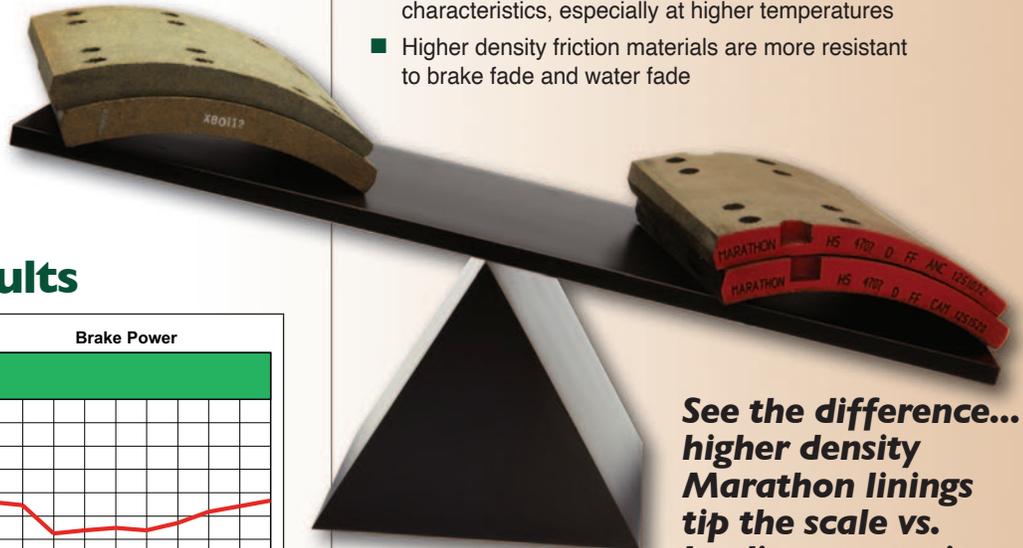
ISO 9001
CERTIFIED
ISO 14001
CERTIFIED



Hi-Density Friction

One of the most significant design characteristics of any heavy duty brake lining is its density. When higher quality and heavier raw materials are used in a lining's formulation, it creates a higher mass in the block or stated another way, higher density. Truck brakes are designed to convert the energy of a moving vehicle into heat energy. A higher density increases the lining's ability to efficiently handle heat, and is the most critical component in a friction material's fade, recovery and wear.

- Higher density friction materials have the ability to hold more heat energy and therefore more efficiently dissipate the heat
- Higher density friction materials have stronger structural integrity, making them less likely to crack in service, while riveting or due to rust jacking
- Higher density linings exhibit significantly better wear characteristics, especially at higher temperatures
- Higher density friction materials are more resistant to brake fade and water fade



**See the difference...
higher density
Marathon linings
tip the scale vs.
leading competitor**

**The Marathon Advantage...
Feel the Difference**

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