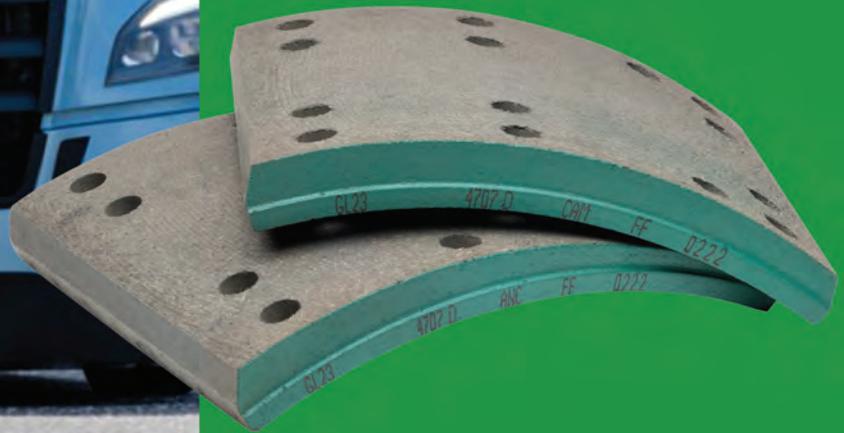




# GL23

## Green Leaf Technology

An environmentally friendly standard grade brake lining designed for heavy loads and over-the-road trucking



# Marathon

BRAKE SYSTEMS

# GL23

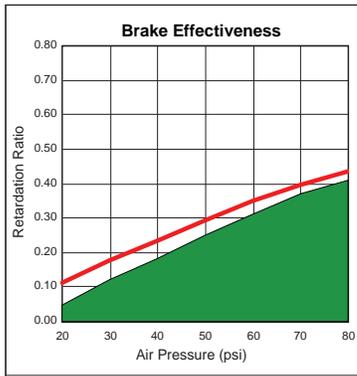
## Green Leaf Technology

Marathon's R&D group developed Green Leaf GL23 to provide fleets an environmentally friendly option for a standard quality friction material. GL23 is appropriate for use on applications such as liquid tanker and grain, as well as general over-the-road hauling for both tractors and trailers. GL23 delivers dependable stopping power with excellent wear characteristics and is a formulation that easily meets Federal regulations in accordance with FMVSS 121 test procedure and is rated for 23,000 lb axle loads.

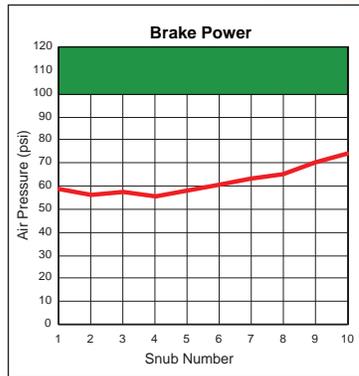
### GL23 Delivers

- Ideal for general freight hauling and most 23,000 lb. GAWR applications
- Environmentally friendly friction formulation
- Excellent brake fade and recovery characteristics
- Dependable stopping performance
- Extremely drum friendly

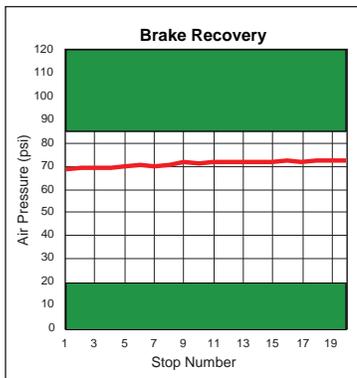
### FMVSS 121 Test Results



Retardation



Fade



Recovery

Testing conducted in accordance with F.M.V.S.S. #121 criteria @ 23,000# axle load; 16 1/2 x 7" S-cam air brake; 30 x 5.5 input power; and a 19.6" tire rolling radius. Shaded area indicates non-compliance.



## Marathon's Green Leaf Technology

Marathon Brake Systems has developed a new green technology that it uses to produce Green Leaf GL23 brake linings. The new GL23 friction material certifies under strict environmental testing and delivers dependable performance. Marathon's new Green Leaf manufacturing process is designed to produce less in process waste and also to reuse the limited waste created during manufacturing in the formulation of the friction material.

- Green Leaf technology results in much less waste going to the landfill which is better for the environment
- GL technology has resulted in dependable product performance characteristics
- GL23 consumes less raw materials and therefore provides a lower cost to the customer

Marathon's Green Leaf technology results in a 100% copper-free formulation in complete compliance with applicable state and federal regulations as part of the Copper-Free Brake Initiative. GL23 linings certify as N rated per SAE J2975 test criteria for copper and asbestos content, along with heavy metals including antimony, cadmium, chromium, lead, nickel, zinc and mercury to ensure contents are below dangerous limits.



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

