

News Letter No: 99

April - 2010

Sub : Development of High Silicon – Molybdenum (SiMo) Ductile Iron Castings.

Magna is pleased to announce the successful development of High Silicon – Molybdenum alloyed ductile iron castings for Turbo Chargers.

High silicon-molybdenum Ductile Irons offer the designer and end user a combination of low cost, good high temperature strength, superior resistance to oxidation and growth, and good performance under thermal cycling conditions. As a result these materials have been very cost-effective in applications with service temperatures in the range 1200-1500°F (650-820°C) and where low to moderate severity thermal cycling may occur. Ductile Irons with 4% silicon and 0.6-0.8% molybdenum are presently specified for numerous automotive manifolds and turbocharger casings. High silicon irons containing 1% molybdenum are used for special high temperature exhaust manifolds and heat treating racks.



With this development of SiMo Ductile Iron, Magna will enter into value added ductile iron castings with superior metallurgical properties to serve its customers better.