Transfer Case Sliding Sleeve

Company: Sintertech

Application Sector: Automotive

Requirements: This part is used in a transfer case on 4WD SUVs. It combines two main functions: the upper part is a sliding sleeve similar to what could be found in a standard manual transmission and the lower part a ring gear as in an automatic transmission planetary assembly.

Benefits: Traditionally this part was made out of two wrought steel forged parts (sliding sleeve and ring gear), with the sleeve press fitted on the ring gear then welded onto it. Thanks to PM’s unique capabilities the entire part can be produced in one operation. This enables a major cost saving of some 20% compared to conventional production methods.

Product Density: 7.5 g/cm³
Tensile Strength: 1200 MPa
Product Hardness: 750 Hv0.1
Finishing: Sizing, Rolling, Machining, Heat treatment