

ABS RING

Material:- Low Carbon steel fabricated in tube form.

This geared collar was designed to fit on the constant velocity joint of a front wheel drive passenger vehicle, for use with the ABS system. The surface finish specified was zinc plated (non electrolytic), consisting of zinc and aluminium paste in an organic matrix of zinc chromate. This coating, applied by drip-drain and drip-spin techniques, followed by curing at 300°C. The neutral salt spray resistance was specified as 400 hours.

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ABS RING (cont)

The problems at the initial production introduction stage were created by the zinc-aluminium coating being pulled off the substrate when filtered to the constant velocity joint. This could interfere with the operation of the ABS sensor. Another problem was that of dimensional control due to the edge build up and uneven coating together with irregular protrusions at the top of the teeth. Nitrotec Surface treatment with the standard sealant gave the dimensional stability required, together with the salt spray results achieving 1000 hours.

