



HUYTON HEAT TREATMENTS (2010) LTD

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Data Sheet - Alpha PNC20 TM

Description:

A low temperature pit furnace orientated nitrocarburising process which offers the engineer a viable alternative to classical gaseous nitriding.

Application:

The process is applied to alloy steel components which would normally be nitrided. It should be noted that the process has two main advantages over the traditional process:-

1. The process replaces the brittle and undesirable 'white layer' associated with nitriding with a more flexible compound layer which does not need to be removed before going into service.
2. Process turn-round time is reduced by some 60%

Typical components: crankshafts, gears, camshafts, cylinders, seat slides.

Metallurgical Aspects:

Compound layer depth: 0.025 - 0.05 mm.
Surface hardness: Material dependant

