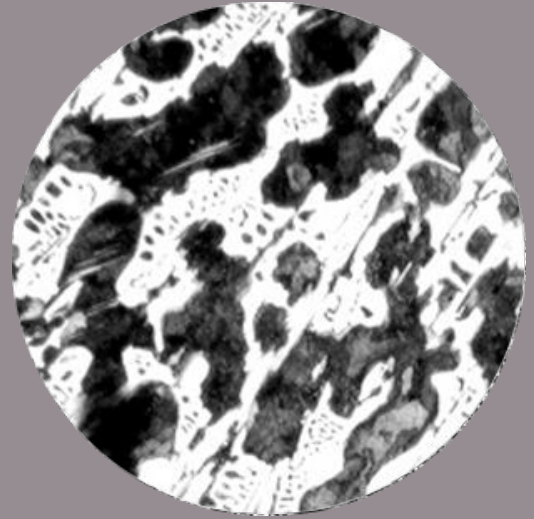




Abrasion Resistant Cast Iron (Ni Hard)

Durham Foundry manufactures abrasion resistant cast iron, often referred to as Ni Hard, to BS ISO 21988. Within this standard are a range of grades which can be certified by Brinell Hardness (HBW). All grades have a required chemical analysis and most grades can be supplied either as cast or heat treated.

Although there are thirteen grades in the standard, all of which can be supplied, there are two grades that we manufacture on a regular basis.



Grade	C %	Si %	Mn %	Ni %	Cr %	Mo %	Cu %	P and S %
ISO 21988 JN/HBW510Cr2	3.0 to 3.6	Max 0.8	Max 0.8	3.0 to 5.5	1.5 to 3.0			Max 0.1 each
ISO 21988 JN/HBW555XCr27	1.8 to 3.6	Max 1.0	0.5 to 2.0	Max 2.0	23.0 to 30.0	Max 3.0	Max 1.2	Max 0.08 each

ISO 21988 is not the only standard for abrasion resistant cast iron. There is a Euronorm standard, BS EN 12513 and there are comparable standards in the ASTM, DIN and SAE ranges. Also, many people still refer to this material either as Ni Hard or as one of the grades out of the obsolete British standard, BS 4844, such as 2D or 3D.

This data sheet can be read in conjunction with our information sheet for abrasion resistant cast iron which can be downloaded from our website at <http://www.durhamfoundry.com/technical-data-sheets.html>

If you need to order a casting in abrasion resistant cast iron and are confused by its description, unsure as to which grade you need or it has a specification you don't recognise, please contact us as there is a good chance we will be able to help.

For further information please contact Mike Naylor on castings@durhamfoundry.com or 0044 (0)114 249 4977.