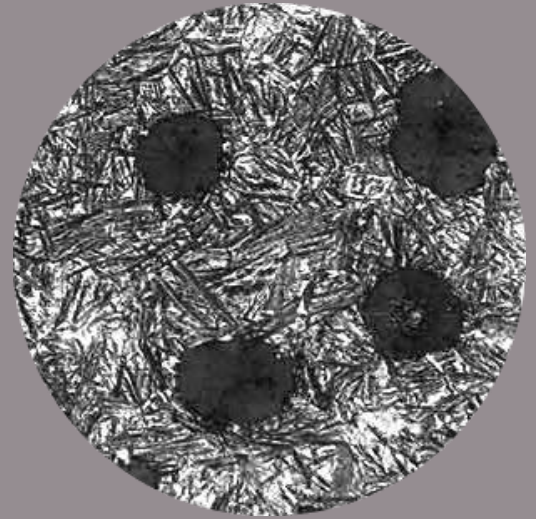




Ausferritic Spheroidal Graphite Iron (ADI)

Durham Foundry manufactures ausferritic spheroidal graphite iron, or ADI, to BS ISO 17804. Within this standard are a range of grades which can be certified by ultimate tensile strength and 0.2% proof stress in N/mm² and percentage elongation. There is no chemical data in the standard. Chemical analyses can be supplied but they would be for information only. If castings are ordered with a test certificate, a mechanical test is all that would be normally supplied unless the chemical analysis is specifically requested. The following table shows the grades that we supply as standard.

Grade	0.2% Proof Stress (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)
BS ISO 17804/JS/800-10 BS ISO 17804/JS/800-10RT	500	800	10
BS ISO 17804/JS/900-8	600	900	8
BS ISO 17804/JS/1050-6	700	1050	6
BS ISO 17804/JS/1200-3	850	1200	3
BS ISO 17804/JS/1400-1	1100	1400	1



The figures above are based on results from separately cast test bars. It should be noted that these results can vary with section thickness which may have a bearing on casting design. The 800-10RT grade also has a charpy impact test at 23 deg C of 9J on an individual test and 10J on an average of three. There is also an annex in the standard which gives information on expected hardness ranges for each grade.

BS ISO 17804 is not the only standard for ausferritic spheroidal graphite iron. There is a Euronorm standard, BS EN 1564 and there are comparable standards in the ASTM, JIS and SAE ranges. Other national standards may also exist.

This data sheet can be read in conjunction with our information sheet for ausferritic spheroidal graphite irons which can be downloaded from our website at <http://www.durhamfoundry.com/technical-data-sheets.html>

If you need to order a casting in ausferritic spheroidal graphite 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.