



## Materials Certifications and Tests

Ariel's compressor components are purchased and machined in large quantities, often in lot quantities. Raw materials suppliers are audited for their quality control and performance. These suppliers provide certain lot sample testing to verify materials chemical compositions and / or physical properties. With the large quantity of components purchased each year Ariel does not require these materials certifications, but rely on the suppliers quality control system and the auditing process. This system maintains supplier quality while limiting component costs and coordination.

An [Inspection and Test Plan](#) has been prepared to show what Ariel and Ariel's suppliers provide for materials certifications. This list includes those tests listed as optional in the Ariel Price Book. Additional testing requests must be reviewed and approved by Ariel. Material certification with traceability are an available option for the crankshaft and cylinder body.

EN 10204:2004 specifies the different types of inspection documents supplied to the purchaser... There are several categories or Types referenced within EN 10204:2004. Below are excerpts from EN 10204:2004 and Ariel's position on these categories.

Type 2.1 non-specific inspection: inspection carried out by the manufacturer in accordance with his own procedures to assess whether products defined by the same product specification and made by the same manufacturing process, are in compliance with the requirements of the order or not.

A type 2.1 requirement would consist of a certificate of compliance written by Ariel with no inclusion of material test certificates.

Type 2.2 specific inspection: inspection carried out, before delivery, according to the product specification, on the products to be supplied or on test units of which the products supplied are part, in order to verify that these products are in compliance with the requirements of the order.

Ariel does not provide certification to Type 2.2.

Type 3.1 Document issued by the manufacturer in which he declares that the products supplied are in compliance with the requirements of the order and in which he supplies test results. ... The document is validated by the manufacturer's authorized inspection representative, independent of the manufacturing department.

Ariel provides an option for Type 3.1 material certificates for the crankshaft and cylinder body. These must be requested with the original equipment purchase order.

Type 3.2 Document prepared by both the manufacturer's authorized inspection representative, independent of the manufacturing department and either the purchaser's authorized inspection representative or the inspector designated by the official regulations and in which they declare that the products supplied are in compliance with the requirements of the order and in which test results are supplied.

Ariel does not provide certification to Type 3.2.