

## Technical Definition

Chemical analysis  
Cast Rene 125 material

### Instructions to participant laboratories

Carefully read these instructions **BEFORE** starting the tests.

1. One specimen is supplied to each participant.  
Laboratory shall submit a report for each accredited element for each accredited method.
2. For each method, 4 complete analyses shall be performed as follows:
  - One technician shall perform all analyses.
  - One analysis shall be performed on each of four days.
  - If the method uses a solution specimen, a new solution shall be made for each analysis.
3. Each participant is required to report the following elements to the indicated precision regardless of their normal practice.

Since this is a cast disk, do not use any surface material for analysis. The specimen must be split into two disks or have at least 0.10 inches (2.5 mm ) removed from the surface to be analysed, or before taking chips for analysis

Kit 8-5-16	Cast Rene 125	Precision	Kit 8-5-16	Cast Rene 125	Precision
Al	Aluminium	x.xxx	Ti	Titanium	x,xx
Co	Cobalt	x.xxx	V	Vanadium	x,xxx
Cr	Chromium	x.xxx	W	Tungsten	x,xx
Cu	Copper	x.xxx	Zr	Zirconium	x,xxx
Fe	Iron	x.xxx	B	Boron	x,xxxx
Hf	Hafnium	x.xxx	Mg	Magnesium	x,xxx
Mn	Manganese	x.xxx	Pd	Palladium	x,xxx
Mo	Molybdenum	x.xxx	Pt	Platinum	x,xxx
Nb	Niobium	x.xxx	Re	Rhenium	x,xxx
P	Phosphorus	x.xxx	C	Carbon	x,xxx
Si	Silicon	x.xxx	S	Sulfur	x,xxxx
Ta	Tantalum	x.xxx	Other	-	-

Figure 1 : Elements and significant digits

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4. You will have to submit a separate results form for each method used, completing the elements performed by the method.

Each element shall be reported in Percent Concentration, to the precision (the number of significant digits) indicated.

Non-quantified elements, such as “remainder”, “balance”, “less than”, “not detected,” etc., shall not be reported.

Elements calculated by difference shall not be reported.

Elements shall not be reported in PPM or any other measure than Percent Concentration.

5. The following additional information is to be reported:
  - Equipment make, model, year
  - Type of reference standard: alloy match, matrix match, none
  - Other means of standardization: please explain
6. Testing may commence as soon as test specimen is received. All participant laboratories must supply results by October 14<sup>th</sup>, 2016.
7. Instructions for submission of results are detailed on the website:  

<https://ptpscheme.com>
8. To ensure the confidential treatment of your results in the final report, you will be allocated a unique identity number when you register for the program.