European Organization for Nuclear Research
Organisation européenne pour la recherche nucléaire

MS-5054/SCE

Market Survey

Technical Description

Supply of Sheets and Plates in Stainless Steel EN 1.4429 (X2CrNiMoN17-13-3), AISI 316LN for Ultra High Vacuum applications

Abstract

This technical description concerns the supply 80 tons of sheets and plates in stainless steel EN 1.4429 (X2CrNiMoN17-13-3), AISI 316LN for Ultra-High Vacuum applications.

This Market Survey will be followed by an Invitation to Tender that is planned to be issued in Q3 2025.

April 2025

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1. INTRODUCTION

1.1 Introduction to CERN

CERN, the European Organization for Nuclear Research, is an intergovernmental organization with over 30 Member States1. Its seat is in Geneva but its premises are located on both sides of the French-Swiss border (https://maps.web.cern.ch).

CERN's mission is to enable international collaboration in the field of high-energy particle physics research and to this end it designs, builds and operates particle accelerators and the associated experimental areas. At present, more than 10000 scientific users from research institutes all over the world are using CERN's installations for their experiments. Further information is available on the CERN website: http://cern.ch.

The accelerator complex at CERN is a succession of machines with increasingly higher energies. Each machine injects the beam into the next one, which takes over to bring the beam to an even higher energy, and so on. The flagship of this complex is the Large Hadron Collider (LHC) as presented on the CERN website: http://cern.ch.

2. SCOPE OF THE SUPPLY

CERN intends to place a Contract for the supply of sheets and plates in stainless steel EN 1.4429 (X2CrNiMoN17-13-3), AISI 316LN (ESR) (hereinafter referred to, in whole or in part, as the "Supply"), as defined in this Technical Description, including its annexes and in accordance with the criteria defined in the Qualification Questionnaire

CERN intends to use sheets and plates for manufacturing various components for ultra-high-vacuum applications.

The Supply shall include the following deliverable and activities:

- Manufacturing;
- Inspection and Test Plan (ITP);
- Non Destructive Testing (NDT);
- Certificates 3.1 according to EN 10204;
- Marking;
- Storage of the supply if requested;
- Packing;
- Shipping to CERN, if so requested.

3. REQUIREMENTS

3.1 Technical requirements

The Supply shall comply the Material Technical Specification in Annex A.

3.2 Dimensions and Manufacturing

Size (mm)	Thickness (mm)	Manufacturing	Finish EN 10088-2 on both sides
Sheets 1500x3000	From 1 to 3	Cold rolled and solution annealed	2D
Plates 1500x3000	From 4 to 50	Hot rolled and solution annealed	1D

4. PERFORMANCE OF THE CONTRACT

An Invitation to Tender will be issued in Q3 2025 with the subsequent Contract scheduled to be awarded in January 2026.

The Supply shall be delivered to CERN one year after the entry into force of the Contract.

5. CONTACT PERSONS AT CERN

All commercial and technical correspondence concerning the Market Survey shall be communicated to the CERN Procurement officer and in copy to the technical officer. Any communication by or to any other person than the CERN Procurement Service shall not be valid and have no effect.

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ANNEX A: MATERIAL TECHNICAL SPECIFICATION Nº 1002 ED.5