



CORPORATE PURCHASING SPECIFICATION

AA 107 40

Rev. No. 08

PREFACE SHEET

**AUSTENITIC STAINLESS STEEL SHEETS, PLATES AND STRIPS –
SOLUTION ANNEALED (ASTM A 240M, TYPE 321) ↑**

FOR INTERNAL USE ONLY
REMOVE THIS PREFACE SHEET BEFORE ISSUE TO SUPPLIERS

Comparable Standards:

- | | | | |
|-------------|---|---|---|
| 1. AMERICAN | : | ASTM A 240M
Type 321, Solution annealed. | ↑ |
| 2. INDIAN | : | IS: 6911 - 1992
Gr: X04Cr18Ni10Ti, Solution annealed | |
| 3. EUROPEAN | : | EN 10088-2, Gr: X6CrNiTi 18-10 | |

Suggested/Probable Suppliers And Grades:

Refer Plant Vendors list

User Plant References:

- | | | |
|-------------------|---|--------------------------|
| 1. HEER - HARDWAR | : | HW 021 02 99 |
| 2. BHOPAL | : | PS10506 Sheets & Plates |
| 3. HYDERABAD | : | AISI 321
CSN 417246.1 |

Revisions :

Cl .28.4.16 of MOM of MRC-S&GPS

**APPROVED: Interplant Material
Rationalization Committee-MRC (S&GPS)**

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HARDWAR

Corp. R&D

JUNE, 1978

**AUSTENITIC STAINLESS STEEL SHEETS , PLATES AND STRIPS -
SOLUTION ANNEALED (ASTM A 240M, TYPE 321)** †**ORDERING DESCRIPTION****1.0 GENERAL:**

The sheets, plates and strips shall conform to the latest version of ASTM A 240M, Type 321 and comply with the following additional requirements. †

2.0 APPLICATION :

For general engineering purposes, where corrosion resistance is essential.

3.0 CONDITION OF DELIVERY:

Hot/Cold rolled, solution annealed and descaled (Finish number 1 or 2 B/2D).

4.0 DIMENSIONS AND TOLERANCES

Material shall be supplied to the dimensions specified in BHEL order.

5.0 CHEMICAL COMPOSITION:

As per ASTM A 240M, Type 321. †

6.0 TEST CERTIFICATES:

Three copies of test certificates shall be supplied along with the following information:

BHEL References:

AA 107 40 -Rev. No.08 / ASTM A 240M, Type: 321
BHEL order No,

Supplier's References:

Name
Identification No.
Melt No.
Process of manufacture
Details of heat treatment.

Result of Tests:

Dimensional inspection.
Results of chemical analysis, mechanical tests

Revisions :

CL28.4.16 of MOM of MRC-S&GPS

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**7.0 PACKING AND MARKING:**

Sheets shall be supplied in bundles or in packages each weighing upto a maximum of 3000kg. Plates shall be suitably packed to prevent damage during transit.

For plates below 25 mm thick, each pile (preferably of 16 plates) shall be marked with suppliers identification mark, 'AA 107 40 / ASTM A 240M, Type:321, melt No., BHEL order No., on the top plate.

Each plate of 25mm thickness and above shall be stamped/painted with the suppliers identification mark, 'AA 107 40 / ASTM A 240M, Type:321, melt No., BHEL order No., on the top plate.

FOR INFORMATION ONLY**CHEMICAL COMPOSITION**

C	Si	Mn	Ni	Cr	S	P	Ti	N
≤ 0.08	≤ 0.75	≤ 2.0	9.0-12.0	17.0-19.0	≤ 0.030	≤ 0.045	5(C+N) - 0.70, max	0.10

MECHANICAL PROPERTIES

Hardness, max		0.2% PS, min N/mm ²	UTS, min N/mm ²	% El, min	Cold Bend. ↑
BHN	HRB				
217	95	205	515	40	-