

7	Chemical Composition		% Composition by Weight										
			Ni	C	Si	Mn	S	P	Fe	Cu	Mg	Ti	
	Ladle	Minimum											
Maximum													
Product	Minimum												
	Maximum												
8	Mechanical and Technological requirements	8.1 Tensile Properties at Room Temperature (RT)											
		Rp0.2 N/mm ²	Rp1.0 N/mm ²		Rm N/mm ²		A %						
		min	min		min						
	Verification Test Direction	8.2 (see section 9). —											
	Tensile Properties	8.3 Minimum proof and tensile strength values at Elevated Temperature °C (1N/mm ² = 1MPa)											
		Requirement N/mm ²											
		Rp0.2											
		Rp1.0											
		Rm ²⁾											
		Notes:											
	Other Properties	8.4 Minimum Impact Properties at RT											
		Longitudinal direction: = KV ... J Transverse direction : = KV J											
		8.5 Hardness Brinell HB - EN or Hardness Vickers HV - EN ISO....											
		<i>Both HB and HV: 130 max</i>											
8.6 Modulus of Elasticity (kN/mm ²)													
Temperature °C													
E-Modulus													
Notes:													
9	Testing	9.1 Type of Inspection and Test											
		Test / Inspection	Frequency				Reference						
		Cast Analysis	One per cast				Section 7						
		Product Analysis	One per cast <i>(if required and agreed at the time of ordering by the purchaser).</i>				Section 7						
	Positive Material i/d	All Items				Section 7							

9	Testing	9.2 Tensile Test at RT			
		Product form	Frequency	Reference	
		Sheet /Plate ≤ 10 mm	1 Transverse test per cast per size per 20 sheets / plates or part there of.	Section 8.1 and EN 10 002-1	
		Sheet /Plate > 10 mm	1 Transverse test per plate.		
		Coil Strip	1 Transverse test at each end of the coil.		
		9.3 Elevated Temperature Tensile Tests			
		Product Form	Frequency	Reference	
		All product forms with operating temperatures ≥100°C	One test per cast from the product with the largest thickness.	Section 8.3 and EN 10 002-5	
		9.4 Impact Testing			
		<i>Verification of impact properties is only required when specified by the purchaser at the time of ordering.</i>			Reference
		<i>The values stated in section 8.4 shall be the minimum average of 3 specimens, with only one individual specimen value allowed up to a maximum of 30% lower.</i>			Section 8.4 and EN 10 045-1
		9.5 Hardness Test:			
		Product Form	Frequency	Reference	
		All	All Mechanical Test Samples / Coupons	Section 8.5	
		9.6 Visual Inspection ¹⁾			
		Product Form	Frequency	Reference	
		All	All items	
		9.7 Dimensional Inspection ¹⁾			
		Product Form	Frequency	Reference	
		All	All items	
¹⁾ 100% inspection of all products by the manufacturer. Dimensional tolerances for all product forms shall be agreed between the manufacturer and purchaser at the time of ordering.					
10	Heat Treatment	Method	Temperatures	Holding Times	Cooling
11	Joining	11.1 Welding			
		...			
12	Forming	12.1 Hot and Cold			
		...			

13	Marking	<p>Material shall be marked with the following information:</p> <ol style="list-style-type: none"> 1 - Manufacturers Identification Mark 2 - Cast/Melt Number 3 - Test or Manufacturing Batch Number 4 - Material Grade 5 - EAM Reference No.:..... <p>Markings shall normally be by permanent ink marking or vibro-etching.</p>
14	Inspection documents	<p>14.1 Document type</p> <p>1) Material manufacturers shall supply documentation affirming compliance with this EAM. This documentation shall normally be in the form of an inspection certificate in accordance with EN 10204 3.1.B.</p> <p><i>Note:</i> Note : Where a material manufacturer has an appropriate quality assurance system, certified by a competent body, established within the community and having undergone a specific assessment for materials, certificates issued by the manufacturer are presumed to certify conformity with the requirements of section 4.3 of Annex I of the PED.</p> <p>2) If an inspection document in accordance with EN 10204 3.1.C or 3.2 is specified, the purchaser shall notify the manufacturer of the name and address of the organisation or person who is to carry out the inspection and produce the inspection document. In the case of the inspection report 3.2 it shall be agreed which party shall issue the certificate.</p> <p><i>Note:</i> The affirmation of the compliance of the delivery with this EAM is not a mandatory requirement of EN 10204. Such affirmation – as it is required by PED, 97/23/EC, in Annex I 4.3 first paragraph – can be added into the text of the inspection certificate, when it is signed by the manufacturer. It could also be provided in a separate document. In the case the inspection certificate is signed by a third party, the affirmation shall be contained in a document which is (also) signed by the manufacturer.</p> <p>14.2 Content of inspection documents</p> <ol style="list-style-type: none"> 1) Details of the manufacturer 2) Details of the purchaser (if required) 3) Description and dimensions of the Product 4) Supply conditions 5) Ladle Analysis 6) Product Analysis(if required) 7) Results from mechanical property tests 8) Heat treatment applied 9) Results from other applicable Tests (e.g. PMI) 10) Marking and identification 11) Affirmation of compliance with this EAM 12) Declaration of the Status of the Manufacturers Quality System (including the name of the competent body having certified the Quality System, if applicable).
15	Calculated creep properties	

----()----