

**CERTIFICAT DE INSPECTIE / INSPECTION CERTIFICATE**  
**SR EN 10204:2005 ( EN 10204:2004 ) 3.1**

ArcelorMittal HUNEDOARA S.A:  
Quality Inspection & Statistics  
Hunedoara-Romania Cod 331111

Destinatar / Destined to:  
THYSSENKRUPP MATERIALS ROMANIA

Nr. / No.: 1450067125 Data / Date 14.05.2021

Adresa/Address: BLV BASARABIA NR 256 FORJA PRESE, ETJ 1, 030352, SECTOR 3 BUCURESTI

Comanda nr. / Order no.: 4646

Vagon/Wagon / Auto/Truck:  
AG-07-MTJ

Standard de marca / Material norm: SR EN 10025-2:2019

Marcaj color:

DOP: AMHU-2/09 CPR-13-1 ; AMHU-2/05 CPR-13-1

Observatii / Remarks:

Nr.Ct / No.Item	Nr.Sarja / Heat No	Marca / Quality	Produs / Product	Buc. / Pieces	Cantitate / Quantity [to]	Lungime / Length [mm]	Toleranta la lungime / Tolerance To length [mm]	Incercari mecanice/Mechanical tests									
								Incovoiere prin soc / Charpy impact test			Tip epruveta / Type of sample	Temp [°C]	KV1 [J]	KV2 [J]	KV3 [J]	Medie KV / Average KV	
								ReH [N/mm <sup>2</sup> ]	Rm [N/mm <sup>2</sup> ]	A5 [%]							
1	68622	S355J2+M	IPE160	48	9.214	12100	-0 / +100	383	518	28,0	150/5	-20	83,0	76,0	85,0	81,3	
2	68553	S275JO+M	IPE160	24	4.607	12100	-0 / +100	337	479	33,0	150/5	0	63,0	68,0	61,0	64,0	
3	68552	S275JO+M	IPE160	48	9.214	12100	-0 / +100	348	489	33,0	150/5	0	40,0	45,0	51,0	45,3	

**Compozitie chimica pe otel lichid/Chemical analysis of the liquid steel [%]**

Nr.crt / No Item	Nr.Sarja / Heat No	C	Mn	Si	S	P	Cr	Ni	Cu	Mo	Ti	V	Al	Sn	B	Nb	N	O(ppm)	H(ppm)	CEV
1	68622	0,110	1,150	0,220	0,006	0,020	0,100	0,120	0,390	0,030	0,001	0,040	0,020	0,019	0,0003	0,0008	0,0120			0,370
2	68553	0,150	0,620	0,210	0,017	0,012	0,080	0,140	0,370	0,030	0,001	0,006	0,005	0,016	0,0001	0,0008	0,0100			0,311
3	68552	0,160	0,580	0,230	0,025	0,012	0,080	0,150	0,390	0,030	0,001	0,007	0,004	0,018	0,0002	0,0008	0,0106			0,316

Utilizare preconizata/Intended uses: Structuri metalice si/sau structuri mixte otel-beton/Metalic structures and/or mixed structures steel-concrete

Durabilitate/Durability: Compozitie chimica / Chemical analysis

Sudabilitate/Weldability: CEV

Substanta reglementata/Regulated substance: Performanta nedeterminata/No performance determined

Marcaj/Marked: SR EN 10025-1:2005 ( EN 10025-1:2004 )

Suprafata/Surface: SR EN 10163-3:2005, clasa C, subcl.1 ( EN 10163-3:2004 )

Dimensiuni/Dimension: SR EN 10365/2017; EN 10365/2017

Tol. la dim. si forma / Tolerances on dimension and shape: SR EN 10034/1995; EN 10034/1993

Materialul mai sus mentionat nu prezinta radioactivitate

The above mentioned material has not displayed any radioactivity

Intocmit/Elaborate:

Claudiu Marchidanu



12/1823

Inspectia Calitatii si Statistici/Quality Inspection & Statistics  
Quality Manager: Ileana Cristea Eng.

