

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.: 1450063389
Data / Date: 05.01.2021

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

Comanda nr. / Order no.:
4505

Vagon/Wagon / Auto/Truck:
TM-24-GMG

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

Marcaj color:

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

Observatii / Remarks:

| Nr.Crt / 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 | | | | | | | | | |
|---------------------|-----------------------|--------------------|---------------------|------------------|---------------------------------|-----------------------------|---|-------------------------------------|----------------------|------|--|--------------|------------|------------|------------|-----------------------------|--|
| | | | | | | | | ReH | Rm | A5 | Incovoiere prin soc / Charpy impact test | | | | | Medie KV / Average KV | |
| | | | | | | | | [N/mm ²] | [N/mm ²] | [%] | Tip epruveta / Type of sample | Temp [°C] | KV1 [J] | KV2 [J] | KV3 [J] | | |
| 1 | 67888 | S275JO+M | IPE140 | 46 | 7.210 | 12100 | -0 / +100 | 329 | 466 | 32,0 | 150/5 | 0 | 75,0 | 70,0 | 64,0 | 69,7 | |

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 | 67888 | 0,160 | 0,590 | 0,200 | 0,010 | 0,014 | 0,090 | 0,120 | 0,260 | 0,030 | 0,001 | 0,006 | 0,004 | 0,012 | 0,0001 | 0,0006 | 0,0109 | | | 0,309 |

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:

Cristian Miclean



12/1823

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