



# MATERIAL CERTIFICATE

PS0/F2  
REV.1

SUPPLIER: JC SHANGHAI

ISO 9001: APPROVED

2014/68/EU: APPROVED

P.O NO: 346932

DATE: 2021-10-28

REVISION: 1

MATERIAL CERT NO: MTC1411

DATE: 2022-02-09

REVISION: 0

ITEM CODE: LCV-150-020-03

DRAWING NO: 0800-20-01

COMPONENT: CONNECTOR

SIZE: 3/4"

CLASS: 800

MATERIAL SPECIFICATION: A351 GR. CF8M

HEAT TREATMENT: -

HEAT NO: 141122

QTY: 100

## CHEMICAL ANALYSIS

PARAMETERS	MIN	MAX	ACT.
CARBON (C)	-	0.3	18.1
MANGANESE (MN)	-	1.5	1.02
SILICON	-	1.5	1.5
SULPHUR(S)	-	-	-
PHOSPHOROUS (P)	-	-	-
CHROMIUM (CR)	18.0	21.0	-
MOLYBDENUM (MO)	2.0	3.0	2.01
NICKEL (NI)	9.0	-	-
TITANIUM (TI)	-	-	-
COBALT (CO)	-	-	-
VANADIUM (V)	-	-	-
CARBON EQUIVALENT (CE)	-	-	-
NITROGEN (N)	-	-	9.1
COPPER (CU)	-	-	-
IRON (FE)	-	-	-
TUNGSTEN (W)	-	-	-
PREN	-	-	-
COLUMBIUM + TANTALUM (CB + TA)	-	-	-

## MECHANICAL PROPERTIES

PARAMETERS	UNITS	MIN	MAX	ACT.	AVJ
TENSILE (UTS)	MPA	485	-	550	-
YIELD (YS)	MPA	205	-	550	-
ELONGATION (E)	%	30	-	32	-
REDUCTION AREA (RA)	%	-	-	10	-
HARDNESS	HB	-	-	156.67	-
IMPACT TEST @ - 190C	JOULES	-	-	33.33	-

## REMARKS

- Visual inspection: accepted according PS04/11 JC IT. Other information: no major repairs carried out.
- We certify that the above material has been manufactured and processed according to requirement of the above P.O.
- The results above indicated are exact transcription from the corresponding certificates, which are filed in our factory, issued by our homologated suppliers
- In accordance with NACE MR0175/ISO15156 & NACE MR0103/ISO17945

(x)Visual Inspection:

Casting: MSS-SP55 and PS04/11 JC IT

Forging: Material Standard applicable and PS04/11 JC IT

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