



**MATERIAL CERTIFICATES WITH MECHANICAL PROPERTIES AND CHEMICAL COMPOSITION  
ACCORDING TO EN 10204 /3.1B PLUS BASE MATERIAL CERTIFICATES**

ZPO-1801-0009

DATE: APR/22.2018

QUANTITY	DESCRIPTION OF GOODS			MATERIAL					RESULT		
120	Hex bushing	1" X 1/2"		18042201	316				OK		
80		2" x 1"									
400	Hex nipple										
70	Red hex nipple										
70	Tee										
20	Red tee										
160	Union flat FF		1"								
400			2"								
1500	90Elbow		2"	18042202							
HEAT NO.	CHEMICAL COMPOSITION								MECHANICAL PROPERTIES		
	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	TENSILE STRENGTH	YIELD POINT	ELONGATION
	MAX	MAX	MAX	MAX	MAX				MPa	Mpa	>30%
	0.08	1.50	1.50	0.040	0.040	9.0/12.0	18.00/21.00	2.00/3.00	>485	>205	
18042201	0.055	0.76	0.80	0.024	0.024	9.16	18.50	2.11	OK	OK	OK
18042202	0.066	0.72	0.94	0.037	0.023	9.12	18.10	2.15	OK	OK	OK

WE HEREBY CERTIFY THAT: 1. THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH TERMS OF THE ORDER CONTRACT.