



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

PO-1806-0002

DATE:AUG/20.2018

QUANTITY	DESCRIPTION OF GOODS			MATERIAL	RESULT								
400	Hex bushing	1/2x1/4	18082401	316	OK								
200		3/4x1/2											
80		2x1 1/2											
20	2												
60	Round cap	3											
1500	90Elbow	1/2											
800		1											
20	Hose nipple	1 1/2											
100		2											
5000	Hex nipple	1/2				18082402							
1000		1											
300		2											
120		3											
200	Square plug	1/4	18082403										
200		1/2											
100		1											
200		2											
60	Red socket	2x1 1/2											
100	Red Hex Nipple	1/2x1/4											
1000	Tee	1/2											
200		1 1/2											
200		2											
100	Red Tee	1x1/2											
100		2x1											
2000	Union Flat F/F	1/2	18082404										
200		3/4											
200		1											
60		3											
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	
18082401	0.062	0.78	0.81			0.022	0.025	9.19	18.51	2.19	OK	OK	OK
18082402	0.065	0.76	0.80			0.024	0.024	9.16	18.50	2.17	OK	OK	OK
18082403	0.056	0.77	0.94			0.037	0.023	9.11	18.10	2.15	OK	OK	OK
18082404	0.06	0.78	0.88			0.022	0.025	9.13	18.49	2.16	OK	OK	OK

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