



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

ZPO-1903-0002

DATE:APR/30.2019

QUANTITY	DESCRIPTION OF GOODS	MATERIAL	RESULT
50	Hexagon Bushing	304	OK
30			
100	3x2		
300	3/8		
200	1/2		
100	1		
60	1 1/4		
80	11/2"		
20	2"		
40	11/2"		
160	2		
60	1/2		
40	1 1/2		
1800	2		
3000	1/4"		
3000	3/4		
500	1		
1000	1 1/4		
2000	11/2"		
100	2		
50	2 1/2		
100	3		
1000	4		
1000	1/2		
200	1		
500	11/2"		
20	2		
20	2 1/2		
20	3		
300	4		
30	1/2		
1000	1 1/2		
500	1/4"		
2000	3/8		
1000	1/2		
3000	3/4		
1000	1 1/2		
100	2		
30	2 1/2		
500	4		
1500	3/8x1/4		
1000	1/2*1/4"		
200	1/2*3/8"		
200	3/4x1/2		
100	1*1/2"		
50	11/4x1"		
60	2x1		
30	21/2x2		
20	2 1/2		
50	3		
200	4"		
200	3/8**1/4"		
600	1/2x1/4		
100	1/2x3/8		
200	11/4x3/4		
100	11/2x11/4		
100	2*11/2"		
100	21/2*2"		
20	3**21/2"		
200	1"		
100	1/8		
150	3/8"		
1000	3/4		
400	1 1/2		
500	2		
60	2 1/2		
60	3		

20	Reducing Tee		11/4x3/4	19032509							
100			2*3/4"								
100			3*2"								
800	Teflon Seat Union		1/2	19032510							
3000			3/4								
500			1 1/4								
1000			2								
CHEMICAL COMPOSITION									MECHANICAL PROPERTIES		
HEAT NO.	C%	Si%	Mn%	P%	S%	Ni%	Cr%	Mo%	TENSILE	YIELD	ELONGATION
	MAX	MAX	MAX	MAX	MAX				STRENGTH	POINT	
	0.08	1.00	2.00	0.045	0.030	8.0/11.0	18.00/20.00		MPa	Mpa	>30%
19032501	0.037	0.55	1.03	0.037	0.013	8.07	18.09		OK	OK	OK
19032502	0.058	0.670	0.950	0.029	0.012	8.10	18.11		OK	OK	OK
19032503	0.060	0.650	0.102	0.030	0.011	8.16	18.06		OK	OK	OK
19032504	0.040	0.53	1.08	0.032	0.014	8.03	18.14		OK	OK	OK
19032505	0.036	0.37	1.04	0.030	0.015	8.06	18.10		OK	OK	OK
19032506	0.037	0.55	1.03	0.037	0.013	8.07	18.09		OK	OK	OK
19032507	0.040	0.53	1.08	0.032	0.014	8.03	18.14		OK	OK	OK
19032508	0.062	0.660	1.020	0.030	0.011	8.16	18.06		OK	OK	OK
19032509	0.040	0.53	1.07	0.037	0.015	8.03	18.14		OK	OK	OK
19032510	0.041	0.53	1.08	0.032	0.014	8.03	18.15		OK	OK	OK

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