



BARBETTI FORGIA

MATERIAL TEST REPORT

ORDER NO:PCH1193-2

INSPECTION CERTIFICATE

FORGED CARBON STEEL FLANGES						MECHANICAL COMPOSITION							
ITEM	PCS	DESCRIPTION	SPECIFICATIONS	HEAT NO.	TENSILE Mpa	YIELD Mpa	ELONG %	R/Area %	HARDNES HB				
1	3215	150# SO RF FLANGE 3"4"6"8"12"14"16"	ASTM A -105-05 ASME B16.5-2003	424285	495	206	31	32	174				
2	341	150# WN RF SCH40 FLANGE 1/2" 1"11/2"6"8"12"		424285	495	206	31	32	174				
3	128	150# BLIND FLANGE6"10"12"		424285	495	206	31	32	174				
4	5	150# THREAD FLANGE8"		424285	495	206	31	32	174				
5	390	300# SO RF FLANGE1"11/4"11/2"3"4"10"12"		14T0415	505	215	34	37	166				
6	1065	300# S40 WN RF FLANGE1/2"3/4"1"11/4"2"4"6"8"10"		14T0415	505	215	34	37	166				
7	125	300# BLIND FLANGE 1/2"3/4"21/2"10"12"16"		14T0415	505	215	34	37	166				
8	60	600# SO RF FLANGE		14T0415	505	215	34	37	166				
9	37	600# WN RF S80 FLANGE8"12"		14T0415	505	215	34	37	166				
CHEMICAL COMPOSITION													
ITEM	HEAT No.	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	CE
1	424285	0.1	0.17	0.6	0.014	0.017	0.02	0.1	0.12	0.1	0.02	-	0.26
2	14T0415	0.20	0.28	0.96	0.02	0.01	0.02	0.12	0.21	0.1	0.02	-	0.44

The Sum of cooper, nickel,chromium, molybdenum and vanadium shall not exceed 2%

The Sum of chromium and molybdenum shall not exceed 0.32%

$$CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15$$

NOTE:FORGED ROLLED 1150°C-1200°C

NORMALIZED 900°C AND ALLOWED TO COOL IN STILE AIR.

QUALITY ASSURANCE CONTROL DEPARTAMENT

Francesco Barbetti

