Ltage shy

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1???? 2????? 3? ??? 4? ??? 5? ???

????????????? ?????

?????????????????????????????????2-1??
?????

?1??1100?1250????????????????

?2???

??? ??

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2.1 ?????????????

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2C+O2=2CO+221.2kJ (2-1)

2CO+O2=2CO2+566.0 kJ (2-2)

C+O2=CO2+393.8 kJ (2-3)

???????????????CO2?????????

CO2+C=2CO-172.6kJ (2-4)

2.2 ???????????

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???????????????

C+2H2O=CO2+2H2-90.2 kJ (2-5)

C+H2O=CO+H2-131.4 kJ (2-6)

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C+CO2=2CO-172.6 kJ (2-7)

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3. ??????????????????? ?????????????????????????2-2??????

?2-2 ?????????????????????

??20~40mm??

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?1????

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?2????

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C+O2?CO2+394.55kJ/mol

????????????????1100~1200?????????????????????????CO2???????????CO2??????????

?3????

?????????????????????????????CO2?????N2?????????3~6m/s??????????10~40cm/s????????????????????CO2????CO?????CO??????

CO2+C?2CO-173.09kJ/mol

2CO«C+CO2+172.2kJ/mol

??????????CO?CO2??

?????????????????????????????????????

C+H2O?CO+H2-131.0kJ/mol

C+2H2O?CO2+2H2-88.9kJ/mol

??CO2?????????????????????

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?4????

??700???H2?CH4?C2H6