

What is Shenfu-Dongsheng Coalfield?

Shenfu-Dongsheng Coalfield is one of the eight largest coalfields in the world and the largest coalfield in China, and its annual output of coal reached 205 million tonnes in 2010. Table 5. Comparison of the experimental parameters and maximum carbonation efficiency of this work and previous work. 4. Conclusions

How much fly ash is produced from Shenfu coal?

However, the annually generated volume of fly ash from Shenfu coal is very huge. Shenfu-Dongsheng Coalfield is one of the eight largest coalfields in the world and the largest coalfield in China, and its annual output of coal reached 205 million tonnes in 2010.

Can Na_2CO_3 be used for carbonation of Shenfu fly ash?

Na_2CO_3 is an effective promoter for CO_2 carbonation of Shenfu fly ash. A multiple-cycle carbonation process was developed to regenerate Na_2CO_3 . Fly ash is a potential source of highly reactive feedstock for CO_2 mineral carbonation. It does not require pre-treatment, but it has a low carbonation rate and efficiency.

What is a promoter for carbonation of Shenfu fly ash?

Mineral phase changes of fly ash in carbonation were determined by Q-XRD analysis. Promoted carbonation efficiency was achieved at elevated temperature and pressure. Na_2CO_3 is an effective promoter for CO_2 carbonation of Shenfu fly ash. A multiple-cycle carbonation process was developed to regenerate Na_2CO_3 .

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