

Investigation on the Hydrothermal Condition in Synthesis of Active Matrix from Metakaolin: Physicochemical Properties and Intrinsic Cracking Activities

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Received: 11th July 2024; Revised: 24th August 2024; Accepted: 24th August 2024

Available online: 8th September 2024; Published regularly: October 2024



SUPPORTING INFORMATION

Table S1. TCD GC response of cracking gas product of SAM-T80-J48

Peak#	Retention time (min)	Area	% Area (%)	Compound
1	0.022	96237	10.5	-
2	1.712	47584	5.2	CO ₂
3	3.897	45093	4.9	H ₂
4	4.202	66655	7.2	-
5	4.381	664220	72.2	N ₂

Table S2. FID GC response of cracking gas product of SAM-T80-J48

Peak#	Retention time (min)	Area	Area%	Compound
1	1.299	4619107	11.89%	Methane
2	1.645	4883207	12.57%	Ethane
3	2.404	6422919	16.54%	Ethylene
4	3.523	3814222	9.82%	Propane
5	6.705	8382968	21.58%	Propylene
6	7.318	66191	0.17%	Isobutane
7	7.676	140123	0.36%	n-butane
8	8.165	657178	1.69%	Propadiene
9	8.709	20612	0.05%	Trans 2-Butene
10	11.045	1018084	2.62%	Isobutylene
11	11.308	1536984	3.96%	Cis 2-Butene
12	11.75	1783725	4.59%	Isopentane
13	12.149	781356	2.01%	n-Pentane
14	12.656	47119	0.12%	1.3 Butadiene
15	13.153	167286	0.43%	-
16	14.281	198799	0.51%	-
17	14.885	189657	0.49%	-
18	15.132	515481	1.33%	-
19	15.489	445509	1.15%	-
20	15.709	536721	1.38%	-
21	15.84	331733	0.85%	-
22	16.125	289906	0.75%	-
23	16.488	61115	0.16%	-
24	16.9	31242	0.08%	-
25	17.044	355446	0.92%	-
26	17.627	327030	0.84%	-
27	18.055	45416	0.12%	-
28	18.207	101575	0.26%	-
29	18.364	32224	0.08%	-
30	18.448	32710	0.08%	-
31	18.697	50183	0.13%	-
32	18.871	27589	0.07%	-
33	18.962	160277	0.41%	-
34	19.07	34629	0.09%	-
35	19.226	222587	0.57%	-
36	19.372	43814	0.11%	-
37	19.524	22487	0.06%	-
38	19.736	54566	0.14%	-
39	19.876	229866	0.59%	-
40	20.108	92252	0.24%	-
41	22.747	28337	0.07%	-
42	23.051	37416	0.10%	-