

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Pada *range* penelitian ini, kondisi optimum untuk melakukan proses sintesis nikel oksalat dengan menggunakan asam oksalat sebagai agen presipitasi berada pada pH 1 dan waktu presipitasi pada titik kritik 24 jam
2. Kemurnian nikel pada presipitat larutan ekstrak *spent catalyst* dan larutan NiSO₄ murni masing-masing sebesar 96,058 % dan 99,117 %.
3. Bentuk partikel nikel oksalat dari proses presipitasi oksalat berupa oktahedral
4. Partikel nikel oksalat yang terbentuk sudah berukuran nano, namun masih teraglomerasi.

5.2 Saran

1. Perlu adanya penambahan surfaktan untuk mencegah terbentuknya partikel teraglomerasi
2. Penambahan agen pengoksidasi seperti H₂O₂ untuk memaksimalkan perolehan nikel saat proses *leaching*
3. Perlu dilakukan penambahan Na₄EDTA sebagai usaha untuk menurunkan kadar kalsium oksalat dalam presipitat

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