

Figure 16. PSD of the Ruhrchemie catalyst (100 Fe/5 Cu/4.2 K/25 SiO<sub>2</sub>) catalyst before and after F-T synthesis in the STSR test SB-32901.

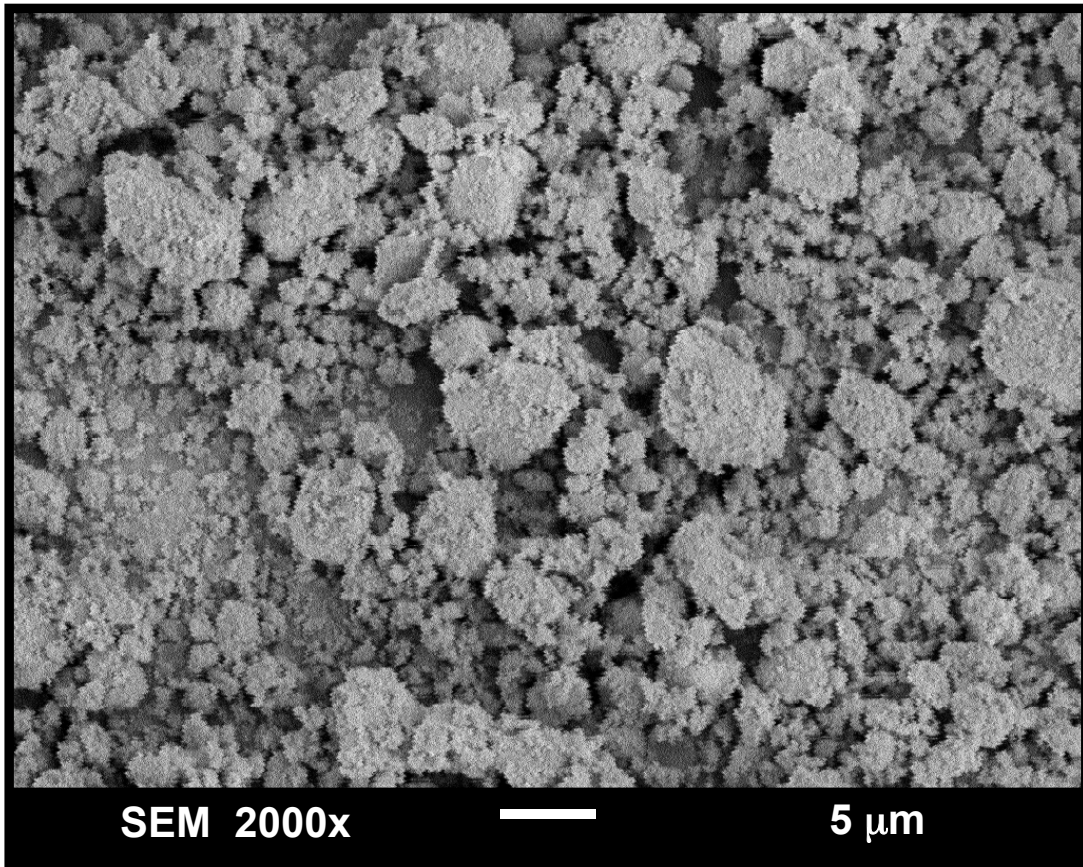


Figure 17. SEM image of calcined DPS-5624-2 (100 Fe/5 Cu/6 K/24 SiO<sub>2</sub>) catalyst after size reduction in a tumbler and ultrasonication.

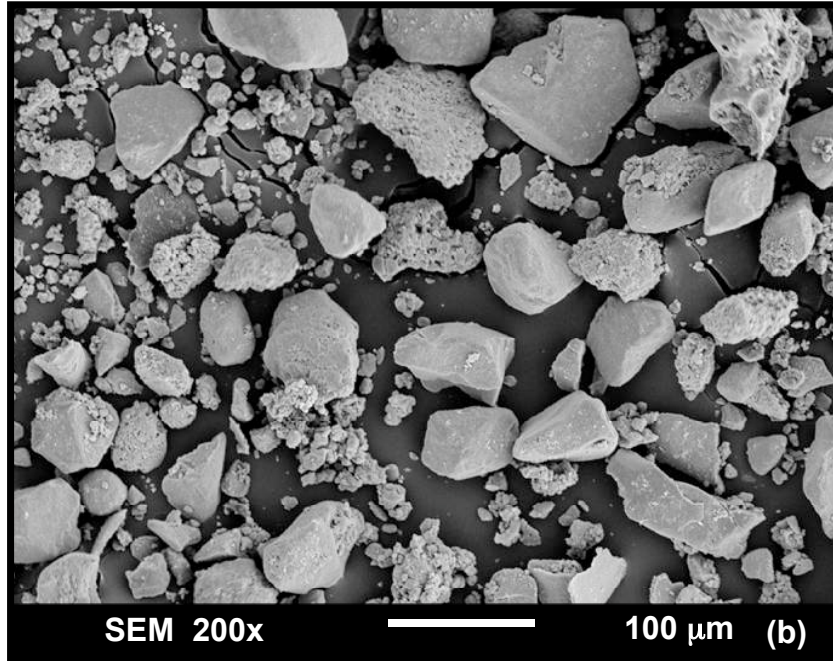
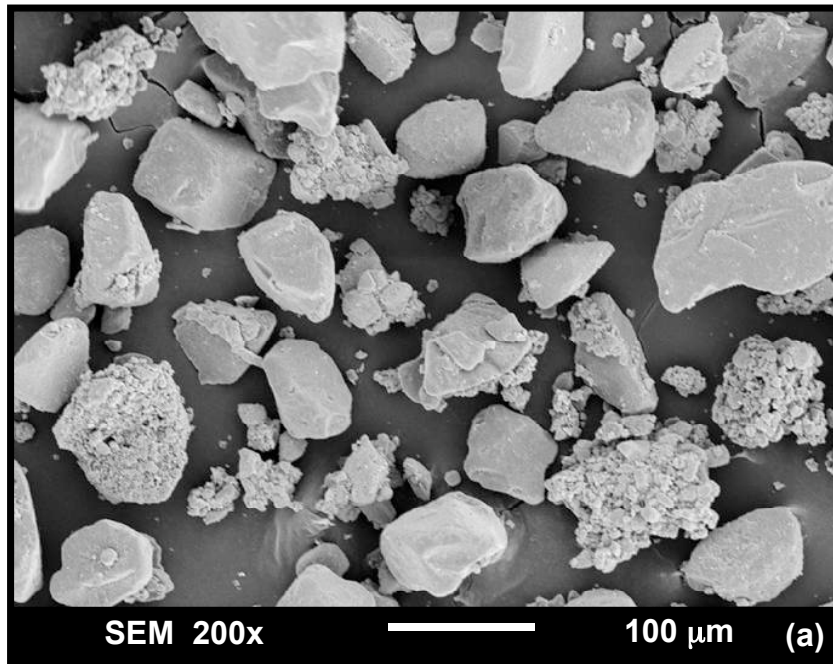


Figure 18. SEM image of spray-dried DPS5624-2 (100 Fe/5 Cu/6 K/24 SiO<sub>2</sub>) catalyst: (a) before F-T synthesis; (b) after 295 h of F-T synthesis in the STSR test SB-16502.

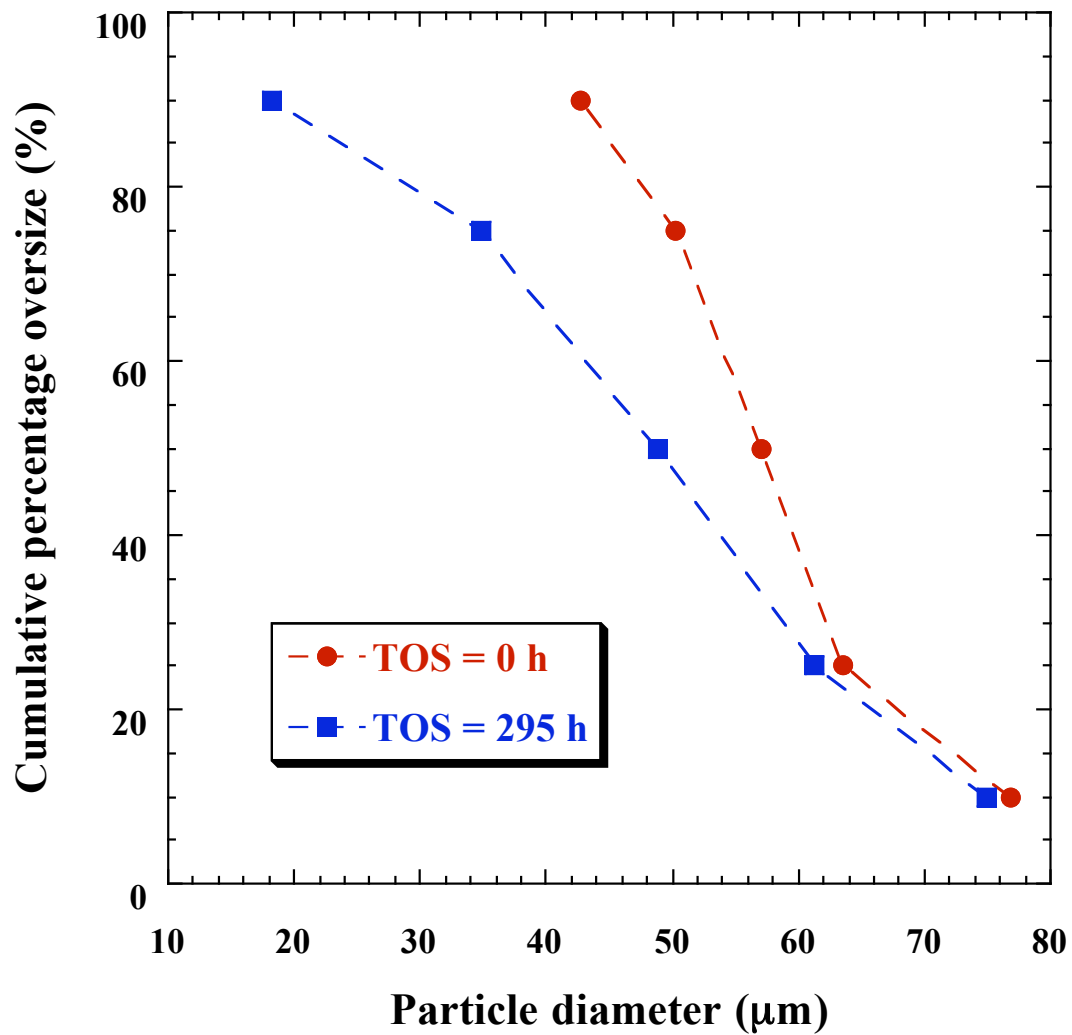
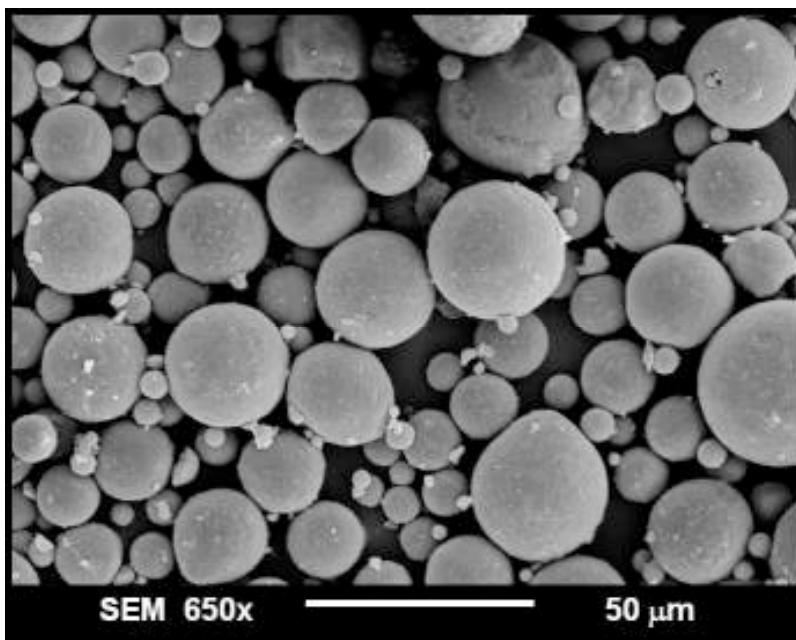
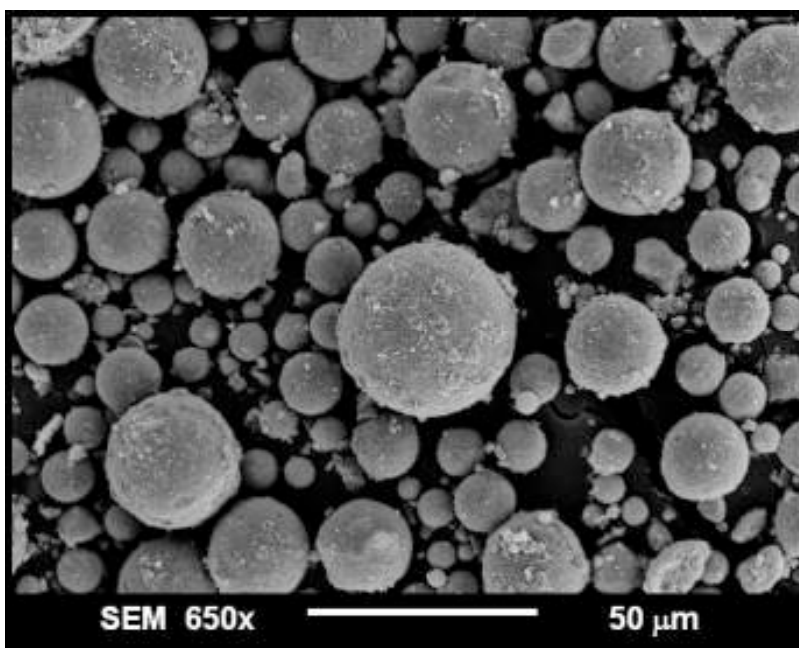


Figure 19. PSD of spray-dried DPS5624-2 (100 Fe/5 Cu/6 K/24 SiO<sub>2</sub>) catalyst before and after F-T synthesis in the STSR test SB-16502.



(a) TOS = 0 h



(b) TOS = 345 h

Figure 20. SEM image of spray-dried WCS3516-1 (100 Fe/3 Cu/5 K/16 SiO<sub>2</sub>) catalyst: (a) before F-T synthesis; (b) after 345 h of F-T synthesis in the STSR test SB-30702.

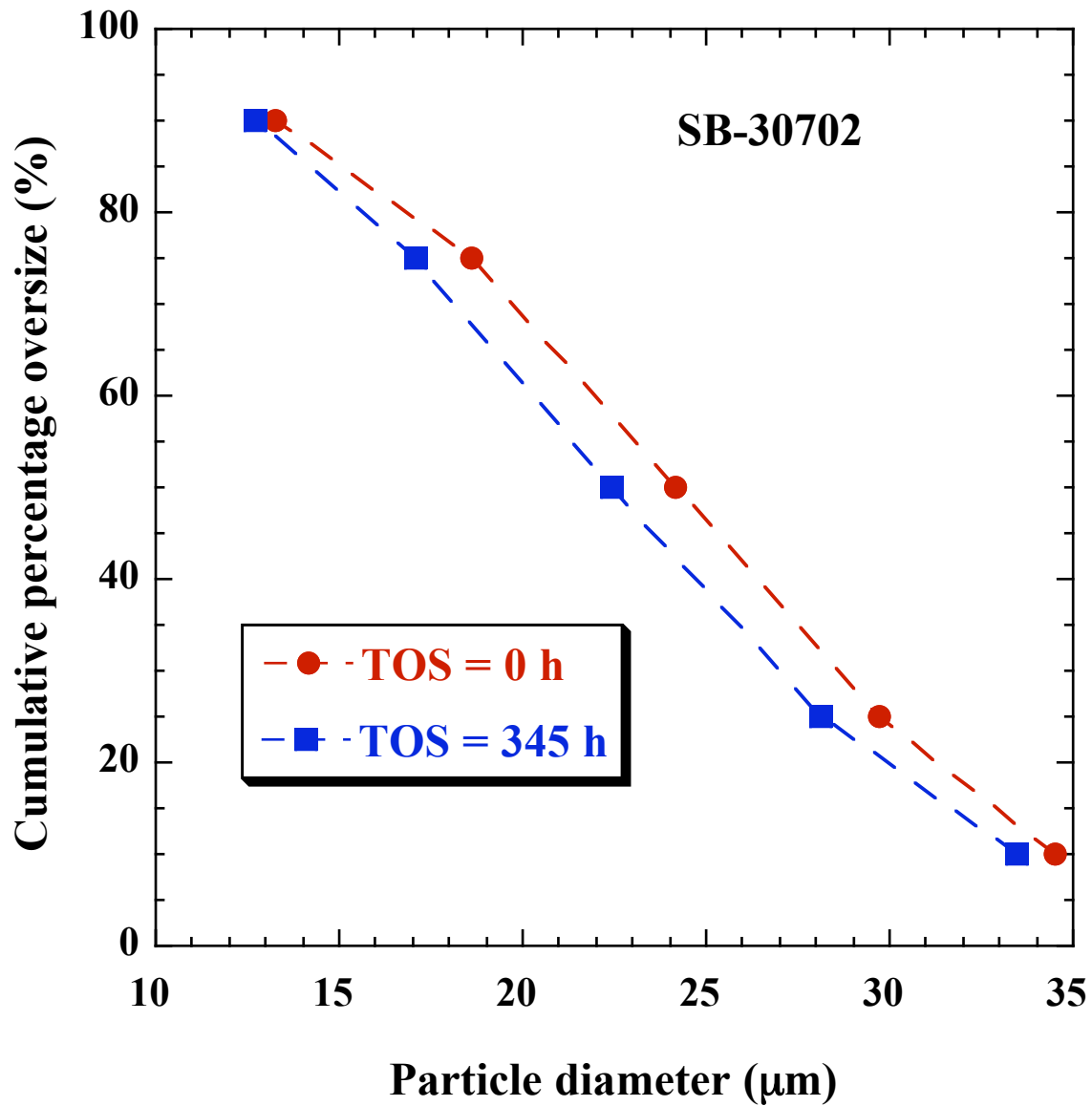
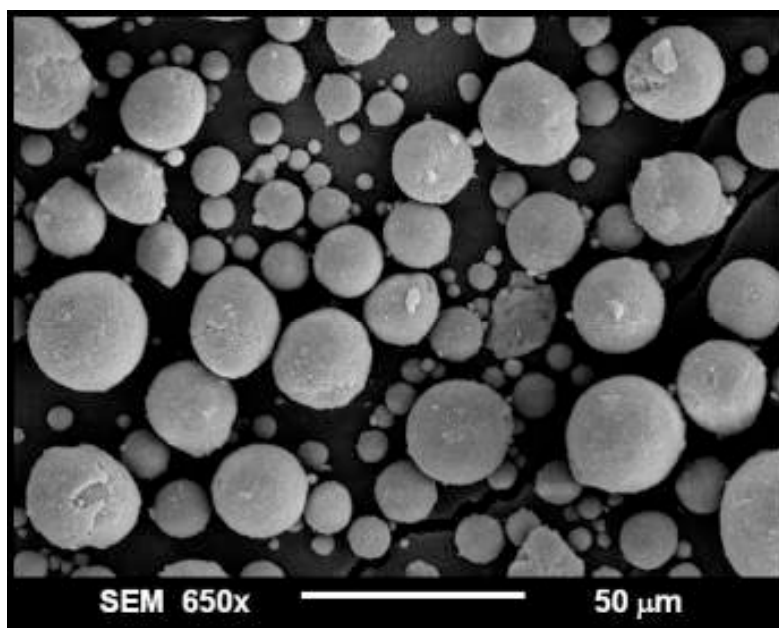
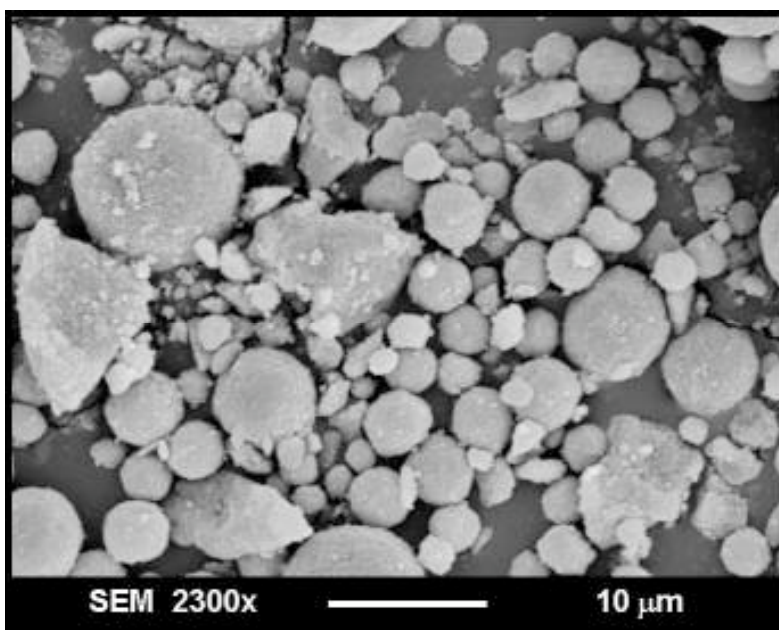


Figure 21. PSD of spray-dried WCS3516-1 (100 Fe/3 Cu/5 K/16 SiO<sub>2</sub>) catalyst before and after F-T synthesis in the STSR test SB-30702.

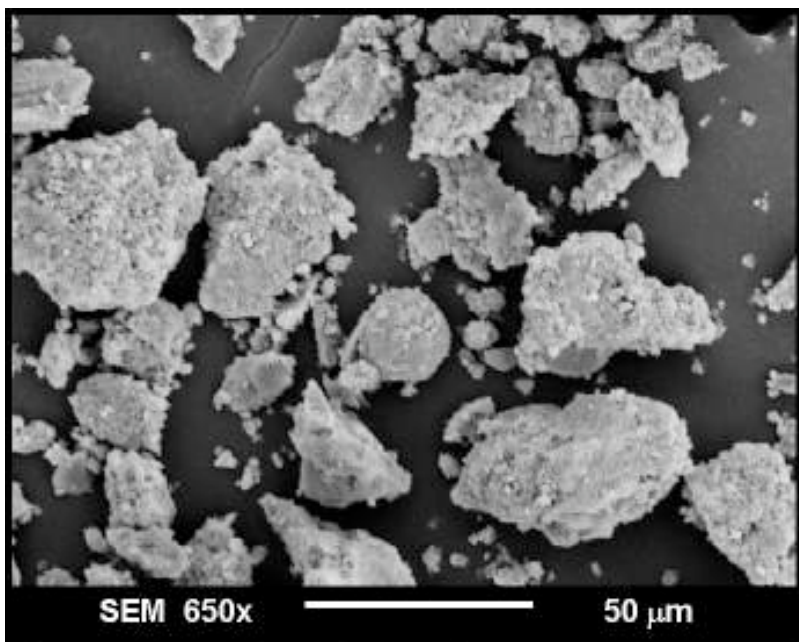


(a) TOS = 0 h

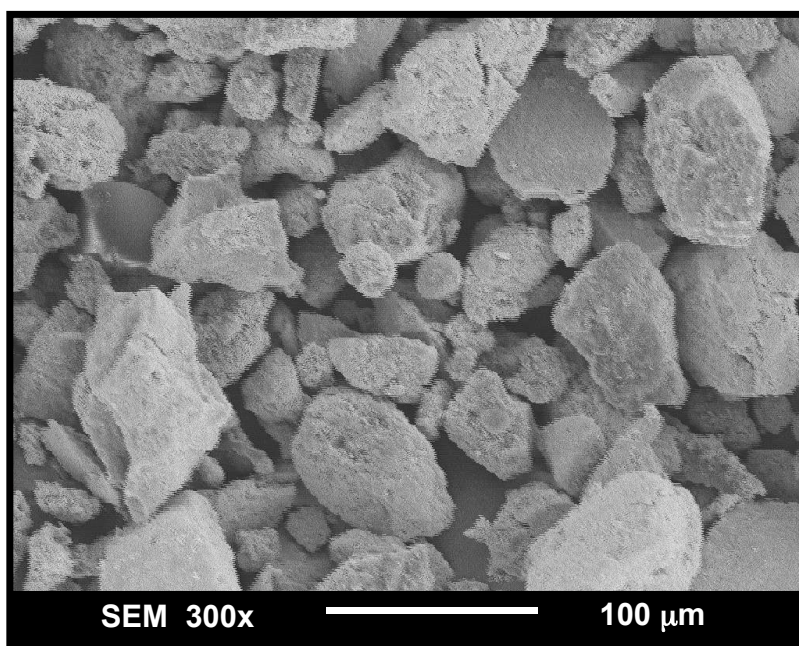


(b) TOS = 0 h

Figure 22. SEM images of WTO3516-1 (100 Fe/3 Cu/5 K/16 SiO<sub>2</sub>) catalyst withdrawn from STSR (run SB-33802) at TOS = 0 h.



(a) EOR sample (TOS = 299 h) after first washing



(b) EOR sample (TOS = 299 h) after Soxhlet extraction

Figure 23. SEM images of WTO3516-1 (100 Fe/3 Cu/5 K/16 SiO<sub>2</sub>) catalyst at the end of STSR run SB-33802 after (a) washing with Varsol 18; (b) Soxhlet extraction.



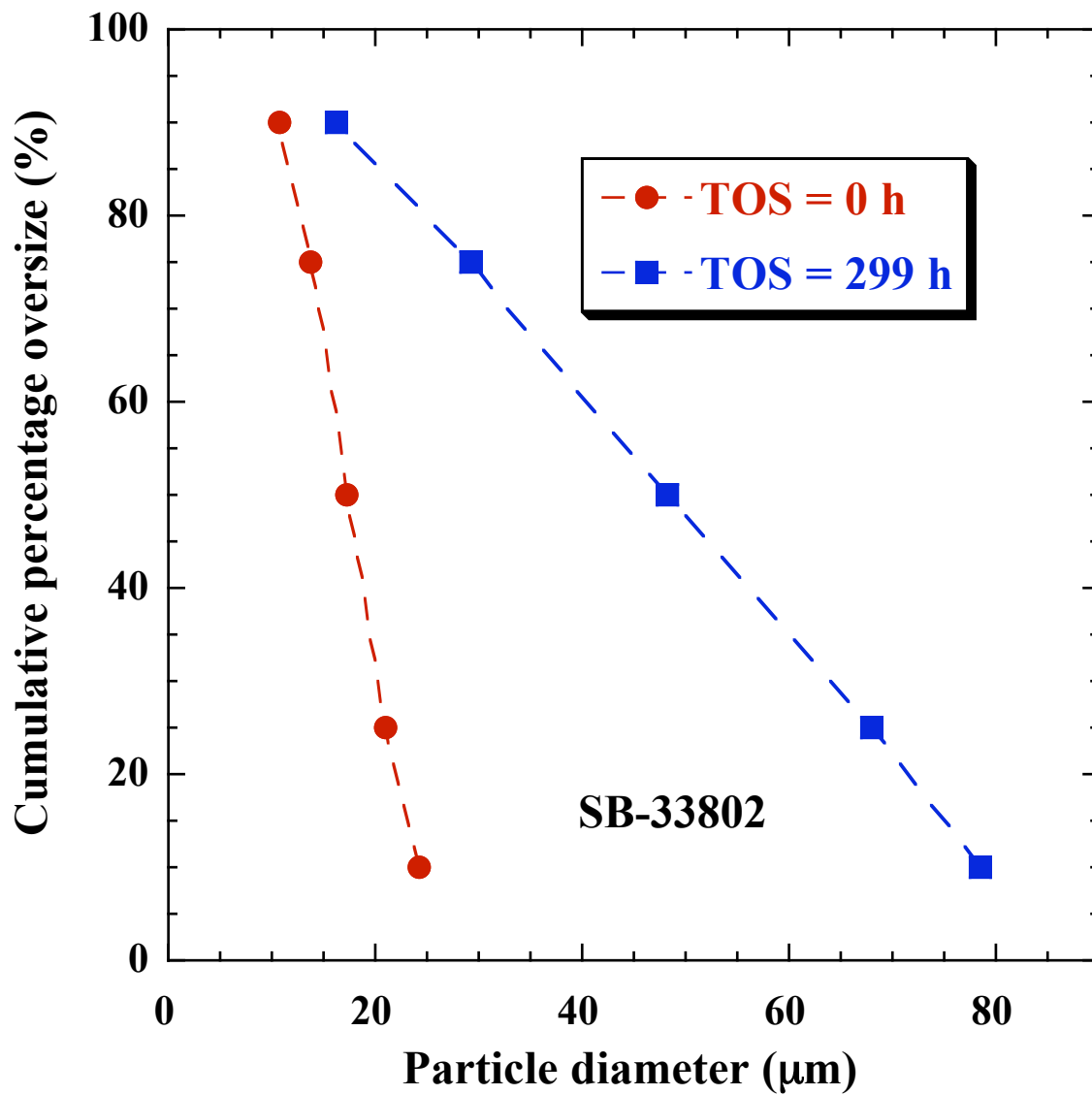
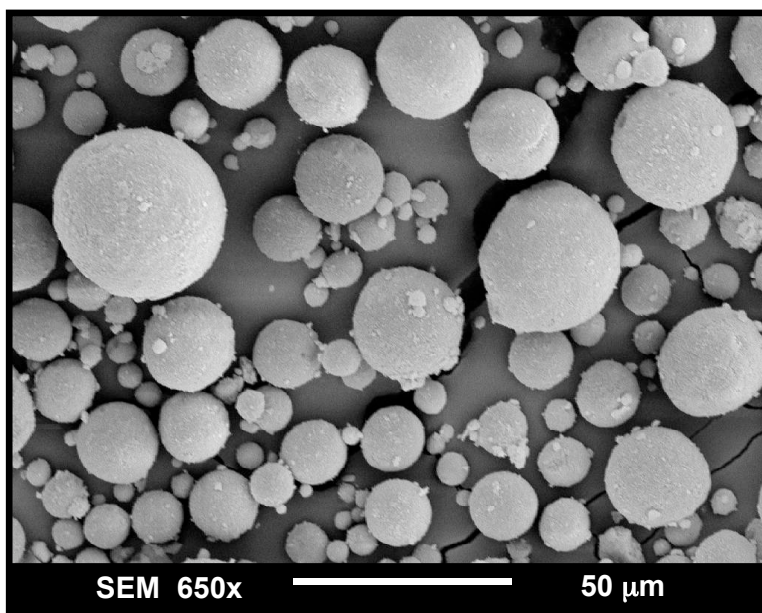
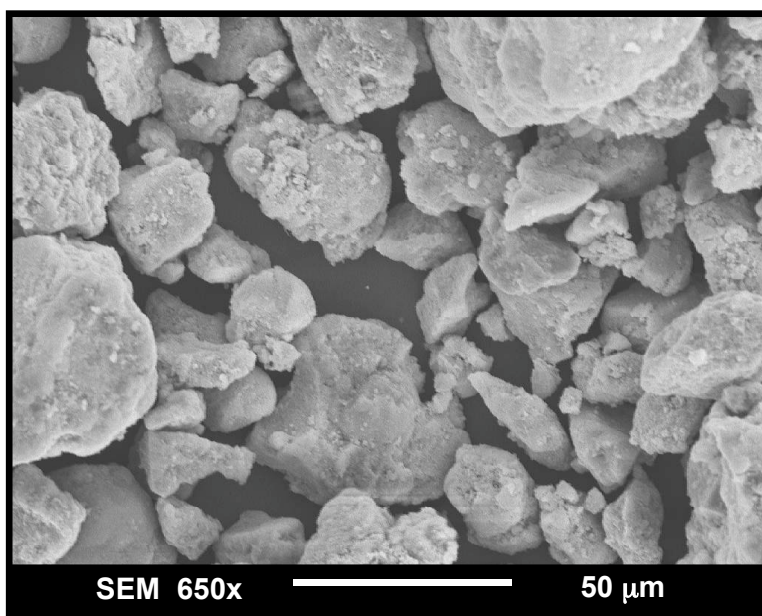


Figure 24. PSD of spray-dried WTO3516-1 (100 Fe/3 Cu/5 K/16 SiO<sub>2</sub>) catalyst before and after F-T synthesis (EOR sample after first washing) in the STSR test SB-33802.



(a) TOS = 0 h



(b) EOR sample (TOS = 364 h) after the first washing

Figure 25. SEM images of WPS3516-4 (100 Fe/3 Cu/5 K/16 SiO<sub>2</sub>) catalyst (a) before F-T synthesis; (b) after 364 h of F-T synthesis in the STSR test SB- SB-09703.