Table 2 Chemical composition of the synthesized ODS FeNiCrY2O3 specimens. The specimens were obtained by vacuum electric arc furnace (EAF) of the mechanically alloyed powders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Specimen | Composition (wt.%) | | | |
| Fe | Ni | Cr | Y2O3 |
| FeNiCr | 58.0 | 25.0 | 17.0 | 0.0 |
| FeNiCr-03Y2O3 | 57.7 | 25.0 | 17.0 | 0.3 |
| FeNiCr-05Y2O3 | 57.5 | 25.0 | 17.0 | 0.5 |
| FeNiCr-07Y2O3 | 57.3 | 25.0 | 17.0 | 0.7 |
| FeNiCr-10Y2O3 | 57.0 | 25.0 | 17.0 | 1.0 |
| FeNiCr-15Y2O3 | 56.5 | 25.0 | 17.0 | 1.5 |
| FeNiCr-20Y2O3 | 56.0 | 25.0 | 17.0 | 2.0 |