

Analysis of defect mechanism inside RDX

김도용, 정재욱, 김현수¹, 김광주*
한밭대학교; ¹국방과학연구소
(kjkim@hanbat.ac.kr*)

Crystallization of RDX (Cyclotrimethylenetrinitramine) using cooling, drowning-out and evaporation methods was carried out. Effect of solvent on the inclusion formation was also studied. Qualitative observations of internal crystal defects were performed by optical microscopy with matching refractive index. The quantitative amounts of inclusions inside the crystals formed in various solvents were related with the supersaturation. Kinetic effect influenced in the inclusion formation in RDX crystallization was studied.