



Synthetic Dye Industrialized Using Independent Technology

Registration No.	Number 00216		
Registration Date	September 13, 2016	Registration Category	Category 1

Name (Model, etc.)	【Items Related to Japan's First Synthetic Indigo Dye】 (1) Indigo barrel (2) Indigo canister		
Location	Mobara, Chiba		
	Mitsui Chemicals, Inc.		
Owner (Custodian)	Mitsui Chemicals, Inc.		
Manufacturer (Company)	(1) Kirihara Container Factory Co., Ltd. (2) Unknown		
Year Manufactured	(1)1933 (2)1935-1941		
Year first appeared	(1)1933 (2)1935		
Reason For Selection	These items relate to the first synthetic indigo dye produced in Japan. Natural indigo is one of the oldest dyes in the world and was a highly-valued import commodity in Europe until it was superseded by the successful achievement of synthetic indigo. It was industrialized in Japan by Miike Dye Works under Mitsui Mining Co., Ltd. using different technology from the German phenylglycine method industrialized in 1897 using aniline and monochloroacetic acid. Production volumes reached 1000 t in 1933. The manufactured indigo was stored and sold in barrels (1), and later exported in canisters (2) as production volumes increased. Although they no longer contain any actual indigo dye, these items are valuable pieces that speak of the history of dye development in Japan.		
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.)		

Open/Closed to Public	Closed to Public		
Photo	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>(1)</p>  </div> <div style="text-align: center;"> <p>(2)</p>  </div> </div>		
Other useful information			