



HUZHOU HUAMAN CHEMICAL INDUSTRY CO.,LTD.

Add: WanAn Huanzhu, HuZhou City, Zhejiang Province China, Fax:0086-572-3380018

Website: <http://www.huamanchem.com/>. Email: postmaster@huamanchem.com

Technical Data of Sheet

NO	ITEM	Iron Oxide Red (α -Fe ₂ O ₃)	Iron Oxide Black (α -Fe ₃ O ₄)	Iron Oxide Yellow (α -FeOOH)	Iron Oxide Orange (α -Fe ₂ O ₃ + α -FeOOH)	Iron Oxide Brown (α -Fe ₂ O ₃ + α -Fe ₃ O ₄ + α -FeOOH)	Iron Oxide Green
1	International Codes	CAS NO. 1309-37-1	CAS NO. 1317-61-9	CAS NO. 20344-49-4	MIX of Red and Yellow	1332-37-2 MIX of Red+Black or/and Yellow	
2	Colour Index	Pigment Red 101 (77491)	Pigment Black 11 (77499)	Pigment Yellow 42 (77492)	77491 plus 77492	77491+77499 or/+ 77492	
3	Content of Fe ₂ O ₃ /Fe ₃ O ₄	95.5% ~ 98.5%	90.0% ~ 95.5%	86.0% ~ 88.0% (Fe ₂ O ₃ form)	90.0% ~ 96.0% (Fe ₂ O ₃ form)	90.0% ~ 95.0% (Fe ₂ O ₃ form)	
4	Volatile Content at 105 °C	≤0.5%	≤0.5%	≤0.5%	≤0.5%	≤0.5%	
5	Residue on 325Mesh / 45µm	≤0.3%	≤0.4%	≤0.3%	≤0.3%	≤0.3%	≤0.3%
6	Loss on 1,000 °C at 0.5 hour	≤0.7%	≤5.0%	≤14.0%	≤11.0%	≤6.0%	
7	Water Soluble Salts (%)	≤0.3%	≤0.5%	≤0.3%	≤0.3%	≤0.5%	≤2.0
8	pH Value	3.5 ~ 7.5 (or Neutral)	5.0 ~ 8.0 (or Neutral)	3.5 ~ 7.5	3.5 ~ 7.5	4.0 ~ 7.5	
9	Oil absorbtion (ml/100g)	15% ~ 25%	15% ~ 25%	25% ~ 35%	20% ~ 30%	20% ~ 35%	20% ~ 35%
10	Color difference vs standards	Similar~Almost, $\Delta E \leq 1$	Similar~Almost, $\Delta E \leq 1$	Similar~Almost, $\Delta E \leq 1$	Similar~Almost, $\Delta E \leq 1$	Similar~Almost, $\Delta E \leq 1$	Similar~Almost, $\Delta E \leq 1$
11	Tinting Strength (%)	95% ~ 105%	95% ~ 105%	95% ~ 105%	95% ~ 105%	95% ~ 105%	95% ~ 105%
12	Tamped apparent density (g/ml)	Approx 0.7 ~ 1.7	Approx 0.8 ~ 1.3	Approx 0.3 ~ 0.8	Approx 0.7 ~ 1.2	Approx 0.7 ~ 1.2	
13	Density Approximately (g/cm ³)	Approx 5.0 ~ 5.1	Approx 4.6 ~ 4.8	Approx 4.0 ~ 4.1	Approx 4.5 ~ 5.0	Approx 4.4 ~ 4.8	Approx 0.3-0.8
14	Recombinant Particle	α - Fe ₂ O ₃	α - Fe ₃ O ₄	α - Fe ₂ O ₃ .H ₂ O (α -FeOOH)	α -Fe ₂ O ₃ mix α -FeOOH	α -Fe ₂ O ₃ mix α -Fe ₃ O ₄	
15	Particle Structure	Spherical	Spherical	Acicular	Irregular	Irregular	Irregular
16	The Grades of HUAMANCHEM's Series Products	HM101, HM110, HM120, HM130, HM140, HM160, HM180, HM190 etc (the colour shade is changing to blue.)	HM795, HM780, HM722, HM722B, HM360, HM340, HM330, HM318 etc (the intensity from strong to feebleness)	HM311, HM313, HM585, HM586, HM710, HM718, HM810, HM910, HM920,	HM100, HM2040, HM365, HM2334, HM960,	HM590, HM610, HM650, HM660, HM686, HM766	HM5605, HM835
17	Test Methods & Stadards by Referred	The Chinese Industry Stadards of GB1863-89, HG/T 2250-91, HG/T 2249-91 and the International DIN 53193, DIN 53195, DIN EN ISO 787 etc.					
R/M	Whilst all reasonable care has been taken in the brochure, the technical data is given in good faith. Our advice is only for your reference, and doesn't release you from the obligation to test and determine the suitability for your processes and applications. The applications and processing of our products manufactured by you are beyond our control and therefore, entirely your own responsibility, no guarantee is given by us.						