

# CRUPE Fire Protect CFP-F Series

F120

F150

F180

F240

**CRUPE Fire Protect CFP-F Series** is a completely new fire protection material developed in Switzerland and China to protect tomorrow's modern structures from fire and intense heat.

Combining a new mortar based mix with our proprietary additives which have now been enhanced to deal with this application CFP takes our unique mixes to the next level for special purpose applications such as fire and heat protection.

Certified up to F240 (A1 4 Hour protection from fire and heat), depending on application, CFP is both significantly less expensive and more friendly to the environment than other fire protection materials available in the market today.

CFP is principally gypsum based which means that it is more environmentally friendly to manufacture and carries a lower CO2 footprint than cement based fire protection mortars. CFP also incorporates Perlite, a volcanic vehniculite, to help regulate heat within the structural elements of our material.

This unique combination of materials helps CFP not only outperform other fire protection materials in the market today but also makes CFP extremely light, translating in savings to weight and line loading throughout the building.

Available in F120, F150, F180 and F240 applications CFP can be applied at site by hand or in pre-applied by machine in far lesser volumes to achieve the same certified fire rating as other fire protection mortars and paints.

Requiring only half the amount of material means CFP leads the industry today in environmentally sensitive and affordable fire + heat protection materials for use in construction and industrial applications throughout the world.

For more information see [www.crupe.com](http://www.crupe.com).



固保国际中国技术质量监控中心

CRUPE INTERNATIONAL CHINA TECHNICAL & QUALITY CONTROL CENTRE

# 检验报告

## Test Report



CRUPE  
固保  
SIMPLY BETTER BUILDING

No: 20141106

产品名称 Product Name	室内厚型钢结构防火涂料 Interior Steel Structure Thick Coat Fire Retardant	型号规格 Type & Specification	NH-CFP
委托单位 Authorized Entity		商标 Trademark	固保 CRUPE
生产单位 Manufacturer	洛阳安太建筑保温材料有限公司 Luoyang Antai Building Insulation Materials Co.,Ltd.	检验类型 Test type	自检 Self-Initiated test
抽样单位 Sampling Entity	广州固保系统建筑材料有限公司 Guangzhou Crupe Systems Building Materials Co., Ltd	抽样基数 Sample base	800公斤(kg)
抽样地点 Sampling location	安太公司仓库 Warehouse of Luoyang Antai	抽样日期 Sampling date	2014.10.11
检验地点 Testing location	本中心、都江堰国家防火检验中心 CRUPE Testing Center, Dujiangyan National Fire Testing Centre	样品编号 Sample no.	FP141011001
样品数量 Sample quantity	400公斤(kg)	样品编号 Sample no.	FP141011001
检验依据 Testing standard	GB 14907-2002 (钢结构防火涂料) GB 14907-2002 (Steel structure fire retardant coating)		
检验项目 Testing items	全项性能 Overall performance		
检验结论 Test Conclusion	<p>经检验, 该NH-CFP室内厚型钢结构防火涂料在涂层厚度27mm时耐火性能试验时间为2.45h, 符合规定的耐火时间要求, 其余已检各项技术指标合格。</p> <p>Pursuant to testing, the fire resistance performance of the "NH-CFP interior steel structure thick coat fire retardant" at 27mm thickness is 2.45 hours, which complies with the required refractory time and the rest of the technical indicators tested qualified.</p> <p>按GB 14907-2002对室内厚型钢结构防火涂料的要求综合判定, 该产品质量合格。</p> <p>Based on a comprehensive assessment of the requirements of GB 14907-2002 on Interior Steel Structure Thick Coat Fire Retardant, the quality of the product qualified.</p>		
备注 Remarks			

批准:  
Approved by:

审核:  
Checked by:

编制:  
Prepared by:

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# 检验结果汇总表

## Testing Results Summary



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序号 Order	检验项目 Testing Items	标准条款号 Standard Clause No.	技术指标 Technical Indicators	检验结果 Test Result	结论 Conclusion
1	在容器中状态 Condition inside container	GB 14907 -2002 5.2.1	经搅拌后呈均匀稠厚液体 状态, 无结块 Uniform thick liquid condition after mixing, without agglomeration	符合要求 Comply with requirements	合格 Qualified
2	干燥时间 (表干)(小时) Drying time (sur- face dry)(Hours)	5.2.1	<24	3.5	合格 Qualified
3	初期干燥抗裂性 Crack resistance at initial drying	5.2.1	允许出现1-3条裂纹, 其宽 度应<1mm Appearance of 1-3 cracks of <1mm allowed	符合要求 Comply with requirements	合格 Qualified
4	粘结强度 Bonding strength (MPa)	5.2.1	>0.04	0.11	合格 Qualified
5	抗压强度 Compressive strength(MPa)	5.2.1	0.3	1.2	合格 Qualified
6	干密度 Dry density (kg/m <sup>3</sup> )	5.2.1	500	478	合格 Qualified
7	耐水性(小时) Water resistance (Hours)	5.2.1	>24, 涂层应无起层、发 泡、脱落现象 >24, coating should not have signs of layering, foaming and shredding	24, 符合要求 Comply with requirements	合格 Qualified
8	耐冷热循环性/次 Heat and cold resistance cycles (Times)	5.2.1	>15, 涂层应无开裂、剥 落、起泡现象 >15, coating should not have signs of cracking, peeling and foaming	15, 符合要求 Comply with requirements	合格 Qualified

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序号 Order	检验项目 Testing Items	标准条款号 Standard Clause No.	技术指标 Technical Indicators	检验结果 Test Result	结论 Conclusion
9	耐火性能 Fire resistance	5.2.1 6.5.6 6.5.7	涂层厚度 25mm+32mm; 耐火性能试验时间 >2h。梁试件最大挠度 <L0/20=210.0mm。 (L0为试件计算跨 度, L0=4200mm) Coat thickness of 25mm32mm; fire resistance testing time >2h, maximum deflection of beam sample < L0/20=210.0mm. (L0 is sample calculated span L0=4200mm)	涂层厚度 27mm; 耐 火性能试验时 间2.45h。梁 试件最大挠度 110.2mm。 Coat thickness of 27mm - fire resistance 2.45hr, maximum deflection of beam sample 110.2mm	合格 Qualified
备注 Remarks		所有试件养护时间均为14天。耐火性能实际按GA/T 110-2013判定。 Curing time of all samples is 14 days. Actual determination of fire performance based on GA / T 110-2013.			



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