SHOTLIST OF FOOTAGE RESEARCH & DEVELOPMENT

TITLE OF PRODUCTION	Research & Development, Linz, Austria				
CONTACT	mediarelations@voestalpine.com				
DATE OF PRODUCTION	June 2016				
AVAILABLE FORMATS	 TV Europa (50i): mov, 1920x1080, Full HD TV USA (59i): mov, 1920x1080, Full HD Web (H.264): mp4, 1920x1080, Full HD 4K available on request 				
KEYWORDS	 Research Innovation Development Light microscopy Purity grade Structure Scanning electron microscopy Corrosion test phs-furnace 				

SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
1	00:00	00:10	American	Young male employee taking a reading with a light microscope (Zeiss, Observer Z1): standard purity grade/hot-rolled strip/inclusions in the steel
2	00:10	00:17	American	Employee reaches for samples and inserts them into the microscope



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SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
3	00:17	00:25	Medium Close up	Employee from front, looks into microscope (Zeiss, Observer Z1): standard purity grade/hot-rolled strip/inclusions in the steel
4	00:25	00:31	Medium Close up	Employee from behind, looks into microscope and then performs analysis on the PC
5	00:31	00:39	American	Young female employee sits in front of the microscope, inserts samples and observes them (light microscope, Zeiss, Observer Z1 - structure characterization,)
6	00:39	00:50	Medium Close up	Employee looks through the light microscope (Zeiss, Observer Z1), camera pans to hand
7	00:50	00:57	Close up	Hand adjusts the light microscope (Zeiss, Observer Z1)
8	00:57	01:01	Extreme Close up	Hand adjusts the light microscope (Zeiss, Observer Z1)
9	01:01	01:09	Medium Close up	Pans from screen to female employee
10	01:10	01:15	Extreme Close up	Light microscope (Zeiss, Observer Z1) - switch to magnification/lens change
11	01:15	01:25	Medium Long Shot	Male employee sits in front of PC, beside him is a scanning electron microscope (Zeiss, ULTRA 55)
12	01:25	01:33	American	Scanning electron microscope (Zeiss, ULTRA 55)
13	01:33	01:55	Medium Long Shot	2 employees performing corrosion test: Corrosion test chamber is filled with samples and put into operation
14	01:55	02:02	Close up	Corrosion test: accelerates corrosion in a salt fog



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SCENE	TIME FROM	TIME TO	CAMERA PERSPECTIVE	SCENE DESCRIPTION
15	02:02	02:13	Medium Close up	Female employee tests corrosion protection, scrapes a sample (width of paint disbonding is measure for corrosion resistance)
16	02:13	02:20	American	Employee tests corrosion protection, scrapes a sample
17	02:20	02:28	American	Laboratory coater, new organic coatings (paint) are first tested in the laboratory
18	02:28	02:37	American	Coater discharge
19	02:37	02:45	Medium Long Shot	Employee inserts sample after coater/coating in furnace
20	02:45	02:52	Medium Close up	Employee inserts sample after coater/coating in furnace
21	02:52	03:02	Medium Long Shot	Employee inserts sample into phs furnace
22	03:02	03:09	Medium Close up	Employee inserts sample into phs furnace
23	03:09	03:16	Close up	phs annealing furnace temperature gauge
24	03:16	03:32	Medium Close up	Female employee removes sample from phs furnace and inserts sample into the testing press (press hardening)

